

NEWS LETTER

Society of American Bacteriologists

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SECRETARY-TREASURER

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1955 OFFICERS AND COUNCILORS

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A. E. Feller, Charlottesville, Virginia	Virginia
Margaret Pittman, Bethesda, Maryland	Washington, D. C.

Invited Members (Nonvoting):

J. R. Porter, Editor-in-Chief, THE JOURNAL OF BACTERIOLOGY; P. W. Wilson, Editor-in-Chief, BACTERIOLOGICAL REVIEWS; H. B. Woodruff, Editor-in-Chief, APPLIED MICROBIOLOGY; Orville Wyss, Chairman of the Program Committee; J. W. Bartholomew, Chairman of the Division of General Bacteriology; Erwin Neter, Chairman of the Division of Medical Bacteriology, Immunology and Comparative Pathology; J. C. Ayres, Chairman of the Division of Agricultural and Industrial Bacteriology; Howard Gest, Chairman of the Division of Physiology

Council Policy Committee:

H. O. Halvorson, *Chairman* J. H. Bailey, *Secretary*

C. B. Van Niel C. A. Stuart J. R. Porter
K. B. Raper (1955) J. E. Blair (1956) Richard Donovanick (1957)

ALEXANDER FLEMING 1881-1955

Sir Alexander Fleming, Professor Emeritus of Bacteriology in the University of London and lately Principal of the Wright-Fleming Institute of Microbiology, died suddenly on Friday, 11th March at his home in London with a heart attack at the age of 73. He was buried in St. Paul's Cathedral on 18th March.

Alexander Fleming, the son of a farmer, was born near Darvel in Ayrshire, Scotland, on August 6th, 1881. His father died when he was 7 years old and at 13 years of age Alexander was sent to live with a doctor brother in London, where he continued his education for two or three years by attending the Polytechnic Institute in Regent Street. He then worked for four years in a shipping office in the City, but his doctor brother encouraged him to take up medicine and with the help of a small legacy he became a student at St. Mary's Hospital Medical School where he won the senior entrance scholarship in natural science. He showed that he had found his true bent by winning practically every class prize and scholarship during his student career. He qualified in 1906 and took his M.B., B.S. of London University in 1908 with honours in physiology, pharmacology, pathology, hygiene and medicine and was awarded a University gold medal. On qualification, he joined the staff of the Bacteriology Department under Sir Almroth Wright and was assistant bacteriologist at St. Mary's from 1906 to 1919 when he became assistant director of the Inoculation Department. He was appointed Lecturer in Bacteriology in the Medical School in 1920 and eight years later he was given the title of Professor of Bacteriology in the University of London. He retired from the Chair in 1948, but continued until the end of 1954 as Principal of the Wright-Fleming Institute of Microbiology in which he had succeeded Sir Almroth Wright in 1946. Freed from administrative duties, he had intended to continue with his laboratory researches in the Institute.

Fleming had most of the qualities that make a great scientist; an innate curiosity to find out how things work, insight into the heart of a problem, ingenuity in devising simple apparatus and simple experiments to test new hypotheses, persistence in seeing the job through and that physical and mental toughness which is essential to the top-class investigator. He also had to an unusual degree the 'seeing eye' that observed what many of us would miss, and it is, I suppose, this perceptiveness joined with some imagination that leads to important discoveries by those men with the mind prepared.

Fleming did not use the experimental animal much in his research work. The capillary tube, the

slide cell and blood from the human guinea pig were his principal tools, and he certainly used these with telling effect. Perhaps if he had used the animal experiment more, he might have demonstrated the marvellous effect of even crude penicillin in curing experimental infections, for which we had to wait another ten years after its original discovery. Yet he appreciated the great potentialities of penicillin at the time of its discovery and his name will be forever associated with the dawn of a new era in medicine.

ROBERT CRICKSHANK

NOMINATIONS FOR 1956

The Nominating Committee for 1955 (Dr. G. M. Dack, Chairman; Dr. F. S. Cheever; Dr. J. L. Etchells; Dr. E. J. Ordal; and Dr. R. P. Williams) has submitted the following nominations for office in 1956. One candidate is to be elected to the office of Vice-president and two as Councilors-at-Large. Biographical data are adapted from "American Men of Science".

For President

Dr. C. A. Stuart, Brown University, Providence, R. I. Born Lyon Mountain, N. Y. May 26, 1893. Ph.B., Brown, 19; M.S., '21; Ph.D. 23. Instr. bacter. Brown, 1923-1925; asst. prof., 1925-1931; assoc. prof., 1931-1944; prof. 1944-. Lecturer R. I. Hosp., 1925-1945; consult. bacter. to Charles V. Chapin Hosp.; Chairman State Board Basic Science Examiners of R. I.; memb. Enterobacteriaceae subcommittee Nomenclature Committee, Intl. Cong. Microbiol. U. S. A. 1917-1919. A.A.; Soc. Bact (Council Policy Committee 1953-55); Fel. Pub. Health Assn; Assn Immun; Soc. Exp. Biol. Physiology and immunological relationships of the Enterobacteriaceae.

For Vice-president

Dr. Max Levine, Territorial Department of Health, Honolulu, Hawaii. Born Poland April 4, 1889. U. S. citizen. B.S., Mass. Inst. Tech, 12; Ph.D. (bacter.) Iowa, 1922. Asst. Mass. Inst. Tech, 1912-1913; instr. bacter, Iowa State Col, 1913-1914, Asst. prof., 1914-1918, assoc prof., 1919-1924, prof. Food and San. Bacter. 1924-1945, in charge dept, 1932-1945; research prof. eng. exp. sta, 1915-1945; chief Bur. Labs. Territorial Dept. Health, Hawaii 1947-. Research assoc. Hawaii 1947-. Assoc ed, 'Food Research'. With U. S. Pub. Health Service, Consultant U. S. Dept. Agr. Sanit. C, 1918-1919, Capt. 1941-1946, Col, 1947-. A.A.; fel. Pub. Health Assn; Soc. Bact; Water Works Assn; Soc. Exp. Biol; Federated Sewage Works Assn; Inst. Food Tech; hon. mem. Soc. Biol. Chem. India. Intestinal bacteriology;

antibiotics; food bacteriology; water and sewage purification.

Dr. Perry W. Wilson, University of Wisconsin, Madison, Wis. Born Bonanza, Ark, Nov. 25, 1902. B.S. Wisconsin, 1928, M.S. 1929, Ph.D. (bacter. biochem.), 1932. Research assoc. agr. bacter. Wisconsin 1932-1934, asst. prof, 1934-1938, assoc. prof, 1938-1943, prof. 1943-. Guggenheim Mem. Foundation fel, Cambridge and Biochem. Inst, Helsinki, 1936-1937. Ed. Bact. Reviews 1952-. Consultant, Fed. Security Admin; Nat. Acad; Soc. Bact; Chem Soc; Soc. Biol. Chem; Soc. Exp. Biol; Biometric Soc; Biochem. Soc. Eng; Soc. Gen. Microbiol. Eng. Isotopes in biological nitrogen fixation; enzyme systems in biological nitrogen fixation; isotopes in study of citric acid fermentation.

For Secretary-Treasurer

Dr. John Hays Bailey, Sterling-Winthrop Research Institute, Rensselaer, N. Y. Born Chicago, Ill. May 3, 1900. B.S. Chicago, 24. Ph.D., 1928; D.P.H. Michigan, 1938. Asst. anat. Chicago, 1926-1928; fel. Nelson Morris Inst. 1928-1929; Huesman Fellow, James Whitcomb Riley Hospital and member dept. pediat, sch. med. Indiana, 1929-1932; research Municipal Contagious Disease Hosp. Chicago, 1932-1935; sr. bacter. Illinois State Dept. Health, 1935-1938; asst. prof. bacter. and director division of bacter. dept. prev. med. pub. health and bacter. sch. med. Loyola University (Chicago) 1938-1941; research bacter. Winthrop Chem. Co, 1942-1945; Chief bacter. Sterling-Winthrop Res. Inst. 1945-. Civilian O.S.R.D. A.A.; Soc. Gen. Microbiol, England; Soc. Bact. (Secretary-Treasurer 1953-1955); fel. Institute Med. Chicago. Antibody formation; types of streptococci in normal and diseased children; mode of action of antibiotics; antibiotics of plant origin; penicillin; resistance to antibiotics.

For Councilor-at-Large

Dr. James W. Bartholomew, University of Southern California, Los Angeles, Cal. Born Ashtabula, O. May 10, 1916. B.S. Ohio (Athens), 1939, M.S. 1941; research fellow Wisconsin, 1942-43, Ph.D. (bacter.), 1944. Teaching asst. gen. zool. Ohio (Athens) 1939-41; gen. bacter, Wisconsin 1941-44 assoc. prof. Bacter Southern California, 1944-. A.A.; Soc. Bact; Pub. Health Assn; Inst. Food Tech; West. Soc. Nat. Morphology and physiology of bacteria; dairy bacteriology; parasitology; industrial bacteriology; medical bacteriology; association of aerobacilli and other gas formers with *Streptococcus thermophilus* in milk.

Dr. Irving Gordon, New York State Department of Health, Albany, N. Y. Born, Cleveland,

O. June 20, 1914. M.D. Michigan, 1937. Interne and resident L.I. Col. Med, 1937-39; jr. med. bacter, N. Y. State Dept. Health, 1940-1943; bacteriologist and immunologist, comm. acute respiratory diseases, Epidemiol Board, U. S. Army, 1943-46; sr. med. bacter. Div. Labs. and Research, State Dept. Health, N. Y., 1946-47; assoc. bacteriologist, 1947-. assoc. bacter, Albany Med. Col, 1946-47, assoc. prof. bacter. and med, 1948-. Fellow Rockefeller Foundation 1941; vol asst. Trudeau Sanatorium, N. Y., 1942. A.A.; Soc. Exp. Biol; Soc. Bact; Public Health Assn; N. Y. State Med. Soc; N. Y. State Assn. Publ. Health Labs; N. Y. State Epidemiol. Soc; Albany Co. Med. Soc; Harvey Soc. Infectious diseases; immunity and biology of virus and rickettsial infections; clinical and laboratory diagnosis.

Dr. C. F. Niven Jr., American Meat Institute Foundation, Chicago Illinois. Born Clemson, S. C. July 22, 1915; B.S. Arkansas 1935; Ph.D. (bacter) Cornell, 1939. Inst. bacter, Cornell 1939-1942, asst. prof, 1942-45; assoc. prof., 1945-46; Bacteriologist Hiram Walker and Sons, Inc. 1946; Amer. Meat Inst. Foundation, 1946-; asst. prof. bacter, Chicago, 1946-48; assoc. prof. 1948-. A.A.; Chem. Soc; Soc. Bact; Soc. Applied Bact. England. Bacterial nutrition; bacterial physiology and metabolism; food bacteriology.

Dr. David T. Smith, Duke Hospital, Durham, N. C. Born Anderson, Co. S. C. Oct. 1, 1898. A.B. Furman, 1918; hom. D. Litt, 1949; M.D., Hopkins, 1922. Intern, Hopkins, 1922-1923; bacter. and path, Rockefeller Inst, 1923-24; bacteriologist and pathologist, N. Y. State Hosp. Incipient Tuber, Ray Brook, 1925-30. Assoc. prof. med, Sch. Med, Duke 1930-, Prof. Bacter, 1932-. Lecturer, Trudeau Post-Grad. Sch. for Tuber, 1924-30. Consultant infectious diseases, U. S. Secy War, 1941-45. S.A.T.C, 1918. Asn. Path. and Bact; Soc. Bact; Tuber. asn; Asn. Anat; Asn. Thoracic Surg; Am. Physicians. Pigmented cells and tumors; bactericidal and bacteriostatic action of dyes; diet and experimental tuberculosis; chronic non-tuberculous infection of the lungs; fuso-spirochetal diseases; etiology of black-tongue and pellagra; mycotic infection of lungs.

SYMPOSIA FOR THE 1956 MEETING

Members desiring to suggest symposium topics for the Houston Meeting April 29-May 3, 1956, are requested to send their ideas to the chairman of the Program Committee, Dr. Orville Wyss, University of Texas, Austin 12, Texas. Because the 1956 meeting will be held almost two weeks earlier in the year than this year's, suggestions should be sent as soon as possible and not later than September 25, 1955. Time will not permit the consideration of suggested topics after this date.

THE 1955 MEETING

The fifty-fifth annual meeting of the Society was held at the Hotel Statler, New York City, May 8-13, 1955. 3,036 persons registered making this meeting the largest in the history of the Society. The Society is indebted to the Local Committee for their efforts and achievements in making this large meeting a success.

The Divisions of the Society elected the following officers for 1955-56:

Division of General Bacteriology

Chairman: Dr. B. Wesley Catlin, Marquette Medical School, Milwaukee 3, Wisconsin

Vice-chairman: Dr. Arthur R. Colmer, Louisiana State University, Baton Rouge, Louisiana

Secretary: Dr. E. Staten Wynne, Anderson Hospital for Cancer Research, Houston, Texas.

Division of Agricultural and Industrial Bacteriology

Chairman: Dr. James Roberts, Camp Detrick, Frederick, Maryland

Vice-chairman: Dr. John H. Silliker, 2819 Glenn Avenue, Los Angeles 23, California

Secretary: Dr. Stanley E. Hartsell, Purdue University, West Lafayette, Indiana.

Division of Medical Bacteriology, Immunology and Comparative Pathology

Chairman: Dr. Stanley Marcus, University of Utah, Salt Lake City 1, Utah

Vice-chairman: Dr. William J. Cromartie, University of North Carolina, Chapel Hill, North Carolina

Secretary: Dr. William Preston, University of Michigan, Ann Arbor, Michigan.

Division of Physiology

Chairman: Dr. J. J. R. Campbell, University of British Columbia, Vancouver, British Columbia

Vice-chairman: Dr. T. C. Stadtman, National Heart Institute, National Institute of Health, Bethesda, Maryland

Secretary: Dr. Ralph DeMoss, McCollum Pratt Institute, The Johns Hopkins University, Baltimore, Maryland.

The chairman of the Divisions serve as members of the Program Committee. It is the wish of this committee that members desiring to suggest symposium topics for the 1956 meeting in Houston, communicate their ideas to Dr. Orville Wyss, chairman of the Program Committee.

Council Meeting

The Council of the Society met at 2:00 P.M. on May 8, 1955 in the Washington Room of the Hotel Statler.

1. President Halvorson presented a request, from the Chemical Corp of the Army, that a committee be appointed by the Society to advise the

Chemical Corp on microbiological questions. The American Chemical Society has appointed such an advisory committee to the mutual satisfaction and benefit of both the A.C.S. and the armed forces. The Council ordered such a committee be appointed.

2. Dr. Robert L. Starkey presented the following report of the committee on the Difco Laboratories grant to the Society:

The Difco Laboratories through its President, Mr. Harry A. Burnett and the Director of the Bacteriological Laboratories, Mr. H. W. Schoenlein, has generously offered to provide funds to enable the Society of American Bacteriologists to provide additional useful service. The committee appointed to consider the offer favors its acceptance and proposes that the funds be used for Travel Grants. The following are some of the details of the proposal:

1. Name

Funds provided by the Difco Laboratories are to be used for travel grants to be known as the President's Fellowships. The recipients of the Society of American Bacteriologists grants are to be known as President's Fellows.

2. Purpose

a. The Fellowships are to be used for training and aid in technical procedures and for study in microbiology.

b. The Fellowships provide money to members of The Society, 35 years of age or under, for short periods of study, generally less than 6 months.

c. The Fellowships are available to qualified personnel of academic institutions.

d. The Fellowships provide funds to meet transportation and/or maintenance expenses.

3. Amount of the grant

a. Funds are to be provided sufficient for a reasonable number of Fellowships, possibly 8 or 10 the first year. The grant for the first year would be \$3,000.00. Subsequent grants would be determined by arrangement with the donor and the amounts of the grant would be renewed annually if agreeable and acceptable to the representatives of both the Difco Laboratories and The Society of American Bacteriologists.

b. The amount of money for a Fellowship is not a fixed sum, but determined by the merit of the proposal and availability of funds.

c. Operating expenses are to be met by the grant.

4. Procedure

a. Applications for Fellowships are made to the Fellowship Committee which will review them promptly and select the Fellows.

- b. Fellowship awards are made by the President on notification of the selections by the Committee.
- c. Applications can be made at any time. They should provide the following information: name, address, date of birth, colleges or universities attended with dates and degrees, professional experience, present position, period for which the Fellowship is to be used, where and with whom the studies are to be made, the objective of the trip, amount of money requested with statement of travel and/or maintenance costs. The application is to be accompanied by a letter from the person with whom the candidate wishes to study indicating that the candidate will be accepted. The candidate will insure that the Committee receives a letter directly from the candidate's sponsor approving the application. The candidate will provide evidence that he will be relieved of his duties at his parent institution for the period of the Fellowship.
- d. In selecting the Fellows, consideration will be given to the likelihood that the objective of the candidate will be accomplished and that effective use will be made of the training and experience.

The following items are brief interpretations or explanations of some of the matters included in the proposal.

The grant was voluntarily offered by the Difco Laboratories because of its long period of interest in The Society and the important role of The Society in developing the subject of microbiology. No limitations were placed on uses of the grant but the hope was expressed that it would be used for some fundamental purpose for which funds were not already available.

Before deciding that the fund should be used for Travel Grants many other possible uses of the fund were considered. Among them were lectureships, symposia, research, publication of monographs, and support of a culture collection. It was concluded that most effective use of the fund could be made by Travel Grants. The Committee hopes that the Fellowships will be used by young microbiologists to make visits to laboratories to study special techniques and to obtain other valuable training concerned with a research program.

The donor preferred that the grant should have some non-commercial designation. This is the reason the name Difco Fellowships is not proposed.

The Fellowships should be available only to personnel of academic institutions. The Fellowships should not be used for project research

though the training and aid will be related to research projects in most cases.

It is the intention of the Difco Laboratories to renew the grant annually, and it is intended that funds adequate for 8 to 10 Fellowships will be provided. Since more than \$3,000.00 may be required for this number of Fellowships, the amount of the grant has not been indicated as a fixed sum.

It is hoped that the Fellowships will meet a definite need for small sums of money for travel grants for specialized training. The Fellowships are not proposed to support activities requiring large sums of money.

The candidate's sponsor might be his supervisor, or, if there is none, a major administrative officer or a scientific associate qualified to evaluate the candidate's application.

Anticipated operating expenses would be costs of application blanks and Fellowship certificates, and of communications in selecting the Fellows.

The Fellowships should be made available as soon as possible. It is expected that the grant for the first year will be provided as soon as it is approved by The Society. (This has been indicated by Mr. Schoenlein).

The Committee recommends that the generous offer of the Difco Laboratories be accepted with thanks and that the plan to use the funds for Travel Grants be approved.

CHARLES A. EVANS

I. C. GUNSALUS

R. L. STARKEY, *Chairman*

The report was accepted after being amended by deletion of paragraph C of section 2.

3. The Society has received invitations from Milwaukee and the Indiana Branch to hold the 1958 meeting at Milwaukee and on the Purdue University campus, respectively. The South Florida Branch, the Eastern Missouri Branch and the Society of Illinois Bacteriologists have invited the Society to hold the 1959 meeting at Miami Beach, St. Louis or Chicago. St. Louis had been tentatively selected for the 1959 meeting at the Pittsburgh meeting, although no firm commitment had been made. Dr. Sugg reported that on the basis of the information presented to him the physical facilities at the various places were adequate. Mr. Wood, of the Miami Beach Convention Bureau, was introduced by Dr. Kimler to the Council and extended an invitation from Miami Beach. Dr. Harding of Society of Illinois Bacteriologists asked in behalf of his Branch that Chicago be considered for the 1960 meeting. A motion was made that a committee, consisting of the Program Committee chairman and vice chairman, the past chairman of the Program Committee and two past chairmen of Local Committees, be appointed to consider where the 1958 and 1959 meetings would

be held. The motion was carried unanimously. Dr. Donovick suggested that the Council Policy Committee be empowered to consider the place of meeting five years in advance. On being put as a motion and seconded, the proposal was accepted.

4. The Council Policy Committee, acting on the recommendation of the American delegation to the International Committee on Bacterial Nomenclature, proposed the nomination of Dr. L. M. Black, Department of Botany, University of Illinois to complete the complement of the American delegation on the International Committee on Bacterial Nomenclature. The Council concurred.

5. Dr. Vera presented a report on the estimated cost of printing a new catalog of cultures in the American Type Culture Collection and a request that the Society advance the American Type Culture Collection \$3,000 to defray part of the estimated cost of the catalog. The National Science Foundation and other societies will be asked to contribute funds to make possible the publishing of the catalog. It was pointed out during the discussion that there will be a charge made for the new catalog, the proceeds from these sales going to make the future editions self sustaining. It was moved and seconded that the Society contribute up to \$3,000 towards the publishing costs of a catalog for the American Type Culture Collection. Carried.

6. The Council recommended that the Society assist, through its Committee on Visual Aids for Instruction in Microbiology, Indiana University Film Productions in making a film on bacteriology. The film will be used in vocational guide work.

7. The Council unanimously adopted the change in Bylaw 2A, relating to dues, proposed by the Council Policy Committee. The Bylaw read: "Regular membership dues shall be twelve dollars (\$12.00) per year of which eight dollars (\$8.00) shall be for subscriptions to the Journal of Bacteriology and Bacteriological Reviews. The annual sustaining membership dues shall be seventy-five dollars (75.00) which shall include a subscription to each of the Society's two Journals and the News Letter". The Bylaw was amended to read: "Regular membership dues shall be twelve dollars (\$12.00) per year. The annual sustaining membership dues shall be seventy-five dollars (\$75.00)."

8. The question of a special membership for students and a choice of subscriptions to the Society's publications was discussed. The Council Policy Committee has recommended that these two closely related questions be studied to determine what can be done.

9. The Secretary-Treasurer reported that an amended brief in the Society's tax case had been filed with the Internal Revenue people. A ruling on the appeal was verbally indicated as being possible "in two or three weeks" when the amended brief was filed April 22.

10. The question of inviting foreign microbiologists to the annual meeting using funds from the National Science Foundation to defray travel expense, was discussed. The Council Policy Committee questioned the propriety of such a request on the part of the Society. It was suggested that informal conversations be undertaken with the National Science Foundation on this point. The Council concurred.

11. The Director of the Employment Bureau read his report which was accepted.

12. The Supervisor of Local Branches presented his report.

13. President Halvorson stated that the Council Policy Committee had examined the reports of the Francis-Syvertson Committee and the Committee on Certification and Problems of Personnel and believed that the two committees and the Council Policy Committee could agree on a plan for certification and accreditation that would be acceptable to the membership. With that end in view the two committees would meet with the Council Policy Committee Sunday evening May 8th. The meeting was adjourned until 9:00 A.M. Monday May 9th.

May 9, 1955. The Council met at 9:00 A.M. in the Washington room of the Hotel Statler. The Secretary-Treasurer read the following statement that had been agreed upon the previous evening: "The two committees recommend that the Society of American Bacteriologists establish a college which shall be made up of senior members of the Society, representative of all branches of bacteriology whose function shall be (1). Establishment of Certifying Boards and (2). To carry on professional, in distinction to scientific, activities. This procedure is necessary in order that the Society of American Bacteriologists may retain its present legal status.

This is concurred in by the Council Policy Committee and they recommend that it be approved by the Council". During the general discussion by several members of the Council it became apparent that, because of a lack of understanding on the part of some and a misunderstanding by others of the statement, that agreement would not be quickly reached. Because this meeting of the Council had not been previously scheduled and several Councilors had commitments at the scientific sessions then in progress, President Halvorson adjourned the meeting.

Another special meeting of the Council was held at 2:00 P.M. May 9th. At this meeting the proposed "college" and its relation to the S.A.B. was explained as were the proposed certifying boards to be established by the "college". President Halvorson proposed that a committee of twenty members, representing the two committees on certification and all the divisions of the Society, be appointed to present the formal organization of

the "college" and plans for certification and accreditation to the Council and, if approved by it, to the membership. Submission to the Council and membership would be by mail ballot.

The following directive was passed:

The Council of the S.A.B. directs the Council Policy Committee to appoint a committee of 20 members of the S.A.B. to submit recommendations to the Council for the creation of a corporation to establish certifying boards and to perform professional but not scientific functions; this committee to consist of representatives of the two existing committees on certification, and of the several divisions of the S.A.B.

The Council adjourned until 2:00 P.M. May 11th.

May 11, 1955. The Council met at 2:00 P.M. in the Washington Room of the Hotel Statler.

1. President Halvorson announced that the Council Policy Committee had met and complied with the directive issued to it by the Council at the previous session. The Secretary read the names of those appointed to the committee:

E. H. Spaulding	P. R. Edwards
J. T. Syverton	C. A. Evans
W. J. Cromartie	R. D. Housewright
L. O. Krampitz	P. W. Kabler
J. H. Bailey	E. M. Mrak
I. L. Baldwin	R. G. E. Murray
M. W. Chase	R. L. Starkey
G. M. Dack	W. W. Umbreit
S. R. Damon	Orville Wyss
Richard Donovick	H. Orin Halvorson
Geoffrey Edsall	(<i>ex officio</i>)

The Francis-Syverton Committee and the Committee on Certification and Problems of Personnel were dissolved and an Interim Committee on Certification, consisting of E. H. Spaulding, Chairman, W. J. Cromartie, C. A. Evans, R. D. Housewright, L. O. Krampitz and J. T. Syverton, were appointed. This committee will function until the new organization takes over.

2. The Council Policy Committee had received a petition signed by twenty five members of the Society interested in public health bacteriology requesting the establishment of a Division of Public Health Bacteriology as a new Division of the Society. The Council approved the suggestion that the Division be established on an informal and experimental basis. In the event that there be sufficient interest and papers presented during the next few years the Council will recommend to the membership the establishing of the Division of Public Health Bacteriology.

3. The Council received a petition from a group of members requesting the creation of a Division of Analytical Microbiology. The Program Committee Chairman suggested that the desire of

members to have papers collected into a session could best be fulfilled by providing a space on the abstract blanks where those submitting abstracts could indicate their choice of the Divisions in which the paper would be presented. The Division of Agricultural and Industrial Bacteriology has a committee working on the composition and program of the Division. This committee will investigate the question of Analytical Microbiology. The abstract blanks will be modified as indicated above.

4. The Rio de Janeiro Branch, through its United States representative asked that the Council try to find a solution for the problem of their dues. The present financial difficulties in Brazil have led to such devaluation that S.A.B. dues cost our Brazilian members \$78 in American money. The possibility of help for these members through Unesco or the Pan American Sanitary Board will be investigated.

5. President Halvorson informed the Council that the term of office of the Supervisor of Local Branches expired at this meeting. A petition, properly executed, had been filed for presentation to the general business meeting calling for a revision of Article X section 1 of the Constitution. If the proposed amendment be adopted at the business meeting, a mail ballot of the membership would be required.

6. The Texas Branch presented a petition to the Council for discussion and, if agreeable to the Council, for presentation to the business meeting. The petition called for changing Article X section 5 of the Constitution to read: "Any Local Branch may include in its membership persons who are not members of the Society provided that such persons shall not be eligible to hold office of presiding officer, councilor or alternate councilor representing Local Branches in the Council of the Society". After a general discussion it was decided to return the petition to the Texas Branch for further discussion and possible modification so that non-members of the Society would not be voting for Society officers.

7. The report of the committee on finances of the Society was read by the Secretary-Treasurer. The Council directed that the report be examined by the President and Secretary-Treasurer and that they then make specific recommendations for implementing the proposals of the committee report, especially on a reduced subscription rate for Emeritus Members.

8. The Council Policy Committee had been requested to establish a committee on taxonomic problems in the *Actinomycetes*. In the past, the Society has had a committee on Taxonomy. The Council Policy Committee recommended "the setting up of a study group to advise the Council regarding establishment of a Committee on Taxonomic problems, with appropriate sub-commit-

tees". It was moved, seconded and passed that this recommendation be accepted.

9. Dr. Spaulding presented the report of his committee on Certification and Problems of Personnel. He requested that item one of the report be deleted as it was no longer pertinent. Dr. Spaulding pointed out that the material collected from the questionnaire sent out last Fall had been put on IBM cards and was now the property of the Society. He also paid tribute to the efforts of the Intersociety Committee on Laboratory Services Related to Health. The report was accepted by the Council. It was moved, seconded and passed that the Society continue its status as an observer on the Intersociety Committee until the organization authorized by the Council May 9th comes into existence.

10. The Council discussed the Kamen case and decided that regardless of the personal feelings of the Council members the Society should take no action.

11. The committee appointed to consider future meeting places reported it had met with representatives of the South Florida Branch, Milwaukee and Indiana Branch and recommended that the Council accept the invitation to hold the 1958 meeting at Purdue University the second or third week in June. Motion made and seconded that the recommendation be adopted. Carried. Meeting adjourned at 4:30 P.M. A motion was made that this Committee study meeting places for 1959, 1960 and 1961 during the next year so that recommendations could be made to the Council at the Houston Meeting. The motion was seconded and passed.

Annual Business Meeting

The annual business meeting of the Society was held in the Ball Room of the Hotel Statler, New York, May 12, 1955. The meeting was called to order by President H. Orin Halvorson at 11:10 A.M.

The Secretary read, in the absence of the respective chairmen, the following reports:

The material comprising the permanent Archives of the Society was received by the chairman of the committee from Johns Hopkins University, where it had been stored, following the untimely death of Dr. Cohen. A reasonably complete inventory has been made of the holding and copies sent to each of the members of the committee and to the Secretary-Treasurer of the Society. In addition a system of listing the acquisitions to the Archives has been initiated as an aid in keeping an accurate record of the holdings. A beginning has been made on the problems of acquisition of material not now in the file but which are believed desirable for historical purposes. Beginning with the Annual Meeting in New York in May, 1955, the committee will exhibit certain of the Archives material for the

benefit of those in attendance at the convention. It is hoped that this will stimulate interest in the Archives and Society members having materials of possible historical value or knowing of such are requested to contact one of the members of the committee.

The present committee is:

Dr. Bayne-Jones, 3227 Reservoir Road, N. W., Washington 7, D. C.

Dr. P. F. Clark, Memorial Institutes, University of Wisconsin, Madison, Wisconsin.

Dr. H. J. Conn, Box 269, Geneva, New York.

Dr. L. S. McClung (Chairman) Department of Bacteriology, Indiana University, Bloomington, Indiana.

Committee on Materials for Visual Instruction in Microbiology. The past year has been unusual in that the Committee has been of assistance in bringing some knowledge of bacteria to millions of people by the medium of television. On two occasions footage of motion picture films in the Committee's files was used on a nation-wide television scientific program and on other occasions the Committee supplied still pictures and motion picture films to members of the S.A.B. for television programs sponsored by their own educational institutions. A movement is underway to better acquaint the lay public and young people with microorganisms and the work of bacteriologists; so the Committee is rendering a useful service to the science and to the Society.

The financial activities of the Committee for 1954 were as follows:

Receipts:

Balance, cash on hand February 15, 1954.....	\$102.86
Income from sale and rental of visual aids.....	1462.52
	<hr/>
	1565.38

Disbursements:

Photographic materials.....	309.49
Postage.....	228.37
Secretarial services July 1, 1954 to June 30, 1955.....	258.00
Refund.....	5.30
Telephone and telegrams.....	4.54
Printing and mimeographing....	168.77
Transportation.....	21.50
Miscellaneous stationery supplies	30.53
Royalties on film.....	44.00
Repairs and equipment.....	29.02
	<hr/>
	1099.52

Balance, cash on hand April 27, 1955..... 465.86

There are unpaid invoices amounting to about \$80 and it is anticipated that about \$300 will be

needed in the near future to replenish the supply of visual aids.

The report of the Employment Bureau was read by Dr. Foter, Director of the Bureau.

The report of the committee to consider the Difco grant was read by Dr. Starkey, chairman (For report, see Council Meeting.)

President Halvorson announced that the Council had appointed, at the request of the Armed Forces, an advisory committee to the Chemical Corp, U.S.A. The request for the appointment of this committee represents the first official recognition of the Society as representing bacteriology by the Armed Forces.

The chairman of the committee on Future Meetings, Dr. Orville Wyss, reported that the 1957 meeting would be held in Detroit, the 1958 on the campus of Purdue University, West Lafayette, Ind.

The Secretary-Treasurer reported that subsequent to the October hearing of the Society's appeal to the Internal Revenue Bureau's ruling of June 30, 1954 on the tax status of the Society, additional Counsel had been obtained and an amended brief had been filed on April 23, 1955. No decision on the appeal has been given to date by the Treasury Department.

President Halvorson announced that the two committees on Certification had agreed upon a unified recommendation and asked that the Secretary read the resolution adopted by the Council (see Council Meeting report). It is expected that the Council will act upon the proposals of the committee and submit them to the membership for approval by mail ballot before the end of the year. There was general discussion of the question of certification from the floor. It was pointed out that professional problems and certification were considered in 1946 and again the next year. In 1948 a symposium on professional problems was held and from this came the committees of the Society that have studied these questions. Frank discussion of problems led to acceptance of general principles for the benefit of the group (Dr. N. C. Laffer). It was pointed out that the Society owed "its heartfelt appreciation of the work of the several committees under the leadership of Drs. S. R. Damon, Thomas Francis Jr. and E. H. Spaulding, whose perseverance with the vexatious problems of the professional status of bacteriologists has now culminated in an optional plan of action".

The Secretary read a proposed change adopted by the Council in Bylaw 2a of the Constitution. It was proposed to change Bylaw 2a from: "Regular membership dues shall be twelve dollars (\$12.00) per year, of which eight dollars (\$8.00) shall be for subscriptions to the *Journal of Bacteriology* and *Bacteriological Reviews*. The annual sustaining membership shall be seventy-five dollars (\$75.00), which shall include a subscription to each of the

Society's two journals and the News Letter." to read: "Regular membership dues shall be twelve dollars (\$12.00) per year. The annual sustaining membership shall be seventy-five dollars (\$75.00)". Motion was made and seconded that bylaw 2a be changed as above. Carried.

A petition, submitted by 39 persons, a majority of the signators of which were members of the Illinois Branch, asking a change in Article X section 1 of the Constitution, was read by the Secretary. Article X section 1 states "The Council shall exercise supervision of the Local Branches of the Society through the Secretary-Treasurer, who may recommend the appointment of a Supervisor of Local Branches to perform this function". The proposed amendment would have this section read: "The Council shall exercise supervision of the Local Branches of the Society through a Supervisor of Local Branches who shall be elected by a majority vote of the Council for a term of three years".

During the general discussion President Halvorson turned the chair over to the Vice-president in order to take part in the discussion. It was pointed out that, in effect, a new officer of the Society was being created and if so, should not be subject to the rule of one year terms for officers. Some felt that it was undemocratic to leave to the Secretary-Treasurer to decide alone whether there shall be a Supervisor of Local Branches; that the membership should decide this. Officers of the Illinois Branch stated that the Council of the Illinois Branch had discussed the amendment and did not see the need of it at this time and that the Branch did not approve this proposal. The Secretary was asked to outline the duties of the Supervisor of Local Branches in accordance with the proposed amendment. These were stated to be arranged for the luncheon for the Presidents and Secretaries of the Local Branches at the annual meeting, check on legality of Local Branch elections, submit programs for incorporation in the News Letter, settle disputes on Branch boundaries, answer questions on the Constitution of Local Branches in relation to the Society. Motion was made and seconded that the proposed amendment to Article X section 1 be rejected. Motion carried.

Dr. Halvorson announced that a committee had been established in response to a request from about 100 members to advise the Council regarding reestablishment of a Committee on Taxonomy with appropriate sub-committees.

Dr. Spaulding reported on part of an analysis of the information acquired from the questionnaire distributed last Fall. The information is on IBM cards and is available at cost of running the cards.

The Resolutions Committee presented the following resolutions which were approved.

The Resolutions Committee wishes to express the sincere thanks of the Society to the members of the New York City Branch of the Society for

its kind hospitality and the opportunity to meet and exchange ideas with fellow microbiologists.

Every member of the local committee and its chairman, Dr. Merrill Chase, have left no stone unturned in providing meeting places for the scientific and social organizations within the Society. The Committee wishes especially to thank the donors of the Difco Award. The program committee is to be congratulated on the arrangement and grouping of the scientific papers. All committees of the Society have worked hard and unselfishly to make this annual meeting a success.

Members of the Society wish to express with deep regret the passing of several of its loyal and faithful members.

G. M. DACK, *Chairman*

C. E. EVANS

A. McKEE

The meeting adjourned at 12:00 Noon.

Roundtable Discussion on Analytical Microbiology —May 11, 1955

The convenor, John J. Gavin, opened the meeting with a short discussion of the purpose of the conference. Pointing out the many problems in microbiological assay, he noted that there was no organization that considered these problems. Most of them were discussed individually on an informal basis. The ideal way for discussion seemed to be the roundtable seminar introduced at the Pittsburgh meeting. Others that he talked with agreed, so the meeting was arranged.

Comments and suggestions for topics to be discussed were requested when notices concerning this gathering were sent to various individuals. The replies received indicated two topics of general interest,

1. the test organism,
2. the preparation of the sample

one, a biological problem, the other a chemical problem. As this was essentially a meeting of bacteriologists it was felt that this discussion should be on the test organism. The agenda was as follows:

1. Growth and maintenance of the test organism
2. Cultural media
3. Species and strain differences

Most of the discussion concerned the growth and maintenance of the test organism. The general points covered on this subject were the age and size of the inoculum, preservation and standardization of the test organisms, temperature relationships and turbidimetric versus titrimetric assay.

The comments on culture media pointed out the difficulties involved by the use of such natural substances as peptones, bovine albumin and yeast extracts. Certification of this type of material does not seem feasible because of the inadequacy of a primary standard. The solution of the culture

media problem is the development of chemically defined media for assay purposes.

The final phase of this roundtable discussion was organizational. All of those present indicated that they were in favor of organizing as a group. A petition, drawn up and signed by all present, was submitted to the Council of the Society of American Bacteriologists. This petition was as follows:

"We, the undersigned members of the Society of American Bacteriologists, in good standing, who feel the need for a section of analytical microbiology, respectfully request the Council to grant permission to initiate the formation of this new section."

J. J. Gavin, Smith, Kline & French Laboratories, was selected by those present to appoint a committee to plan future activities of this group. The committee appointed to plan future activities of this group are:

Helen R. Skeggs—Sharp & Dohme Division,
West Point, Pa.

Roger Kersey—Chas. Pfizer & Company,
Brooklyn, N. Y.

John Gain—Winthrop-Stearns, Rensselaer,
N. Y.

Anyone who is interested in "Analytical Microbiology" will be added to our mailing list if they contact any member of the committee. We are planning a program for the 1956 meeting and would appreciate any suggestions or comments.

Report of the Spaulding Committee

(Submitted to Council on Wednesday, May 11, 1955)

1. A Certifying Board in Medical and Public Health Microbiology

Two weeks prior to the 55th General Meeting we mailed each councilor a copy of a proposed Constitution and By-Laws for the establishment of a Board of Medical and Public Health Microbiology. In view of Council's action on May 9, we withdraw from this report the recommendation that this document be approved.

2. Questionnaire Analysis

Based on the 1954-55 questionnaire and abstracted from an analysis of 3848 returns.

20% of the members are women

8% have the M.D. degree

44% have the Ph.D. or D.Sc. degree

1½% have the D.V.M. degree

½+ % have the D.D.S. or D.M.D. degree

56% have one or more earned doctorate degrees

1% have a degree in medical technology

26% have no degree higher than the bachelor's

2½% have no college degree

42% work in educational institutions, divided into:

20% medical and public health

22% nonmedical

4% work in nonteaching research institutes
6% in nonteaching hospitals
16% work for a federal or dominion government
6½% work for a state, provincial or local government

20% work for private industry
3% are associated with private clinical laboratories

As to the microbiologic area of primary interest:

4% indicated general microbiology
5% indicated immunology
8% indicated virology
7% indicated bacteriology or special areas in it
17% indicated physiology
27% indicated medical (incl. dental), distributed as follows:

12%—subarea not specified
9%—bacteriology
1%—immunology
1½%—virology
1%—mycology
2½%—diagnostic laboratory methods

4% indicated public health
5½% indicated food and dairy
1½% indicated soil
2½% indicated veterinary
9½% indicated industrial
1% indicated agricultural
3% indicated disinfection and chemotherapy
2½% indicated genetics

3. Intersociety Committee on Laboratory Services Related to Health

In the fall of 1952 the American Society of Professional Biologists sponsored the organization of an informal discussion group which later adopted the title that appears above. The Intersociety Committee has continued to show increasing vigor under the chairmanship of Dr. Alfred F. Borg, and at the present time it is composed of individuals who are representatives of or observers for ten different societies. Six of these have membership status: American Society of Professional Biologists; American Chemical Society; American Association of Clinical Chemists; National Association of Clinical Laboratories; American Industrial Hygiene Association; American Society of Biological Chemists. The remaining four societies send unofficial observers. These are: Laboratory Section of the American Public Health Association; Conference of State and Provincial Public Health Laboratory Directors; American Society of Medical Technologists; Society of American Bacteriologists. At its meeting in October, 1954 the Council on Medical Education and Hospitals of the American Medical Association sent an observer. The College of American Pathologists so far has not accepted an invitation to attend a full meeting, although representatives of both groups did meet in Washington in September, 1954.

Matters of general concern to the participating societies are presented for open discussion. These are essentially professional in nature. For example, they deal with ways and means for raising the level of performance of work in laboratories dealing in health services, standardization of practices regarding certification of personnel or licensing of laboratories, alleged salary discriminations and proposed legislation detrimental to the best performance of laboratory work such as the recent rash of bills throughout the nation that would make it illegal for anyone but a licensed physician to buy and/or use a hypodermic syringe even in one's own laboratory.

The Intersociety Committee does not take direct action on matters that concern it since the functions of this group are held to be those of a discussion panel. However, it does make recommendations based upon the collective opinion of the participants, and as a consequence one or more of the participating societies may decide to take action.

Because it is purely a scientific society the S.A.B. does not directly concern itself with professional problems. And the Committee on Certification and Problems of Personnel holds the opinion that this is right. Nevertheless, it is high time for the general membership to recognize the fact that a profession of microbiology has mushroomed into existence, and its interests should be protected. The action of the Council on May 9 toward the establishment of a separately incorporated "College" is a step in this direction.

Whether or not full membership in the Intersociety Committee is also desirable must be decided by the Council before long. At this time, however, we recommend the continuation of the observer status and the appointment of one representative by the President and responsible directly to him. When the professional organization envisioned by the Council comes into existence it will then be time for the Council to reconsider the S.A.B.'s relationship to the Intersociety Committee.

May 11, 1955

Respectfully submitted,
RALPH B. HOULIHAN
LESTER O. KRAMPITZ
NORMAN C. LAFFER
MORRIS L. RAKIETEN
MORRIS SCHAEFFER
EARLE H. SPAULDING, *Chairman*

President's Fellowships

The Difco Laboratories through its President, Mr. Harry A. Burnett and the Director of the Bacteriological Laboratories, Mr. H. W. Schoenlein, generously offered to provide funds to enable the Society to provide useful service. There was no

limitation of use of the funds, but the wish was expressed that they be used for some fundamental purpose for which funds were not already available. The committee appointed to consider uses of the grant made the following proposal that was approved by the Council at the meetings in New York:

1. *Name.* Travel grants supported by funds provided by the Difco Laboratories are to be known as the Society of American Bacteriologists President's Fellowships. The recipients of the grants are designated President's Fellows.

2. *Purpose*—a. The Fellowships are to be used for training and aid in technical procedures and for study in microbiology. b. The Fellowships provide money to members of the Society, 35 years of age or under, for short periods of study, generally less than 6 months. c. The Fellowships provide funds to meet transportation and/or maintenance expenses.

3. *Amount of the grant*—a. Funds are to be provided sufficient for a reasonable number of Fellowships, possibly 8 or 10 the first year. The grant for the first year is \$3,000.00. The amounts of subsequent grants is to be determined by arrangement with the donor, and the grant is to be renewed annually if agreeable and acceptable to the representatives of both the Difco Laboratories and the Society. b. The amount of money for a Fellowship is not a fixed sum, but determined by the merit of the proposal and availability of funds.

4. *Procedure*—a. Applications for Fellowships are made to the Fellowship Committee which will review them promptly and select the Fellows. b. Fellowship awards are made by the President on notification of the selections by the Committee. c. Applications can be made at any time. They should provide the following information: name, address, date of birth, colleges or universities attended with dates and degrees, professional experience, present position, period for which the Fellowship is to be used, where and with whom the studies are to be made, the objective of the trip, amount of money requested with statement of travel and/or maintenance costs. The application is to be accompanied by a letter from the person with whom the candidate wishes to study indicating that the candidate will be accepted. The candidate will insure that the Committee receives a letter directly from the candidate's sponsor approving the application. The candidate will provide evidence that he will be relieved of his duties at his parent institution for the period of the Fellowship. d. In selecting the Fellows, consideration will be given to the likelihood that the objective of the candidate will be accomplished and that effective use will be made of the training and experience. e. Operating expenses are to be met by the grant.

The following items are brief interpretations or explanations of some of the matters included in the proposal.

The grant was voluntarily offered by the Difco Laboratories because of its long period of interest in the Society and the important role of the Society in developing the subject of microbiology.

The Fellowships were proposed in the belief that there was need for small sums of money by young microbiologists to visit laboratories to study special techniques and to obtain other specialized training concerned with a research program. The Fellowships are not proposed to support activities requiring large sums of money.

It is the intention of the Difco Laboratories to renew the grant annually, and it is intended that funds adequate for 8 to 10 Fellowships will be provided. Since more than \$3,000.00 may be required for this number of Fellowships, the amount of the grant has not been indicated as a fixed sum.

The candidate's sponsor might be his supervisor, or, if there is none, a major administrative officer or a scientific associate qualified to evaluate the candidate's application.

Application blanks and additional information regarding the Fellowships can be obtained from members of the Committee.

The Committee:

Charles E. Evans, Department of Microbiology, School of Medicine, University of Washington, Seattle 5, Washington

I. C. Gunsalus, Department of Bacteriology, University of Illinois, 362 Noyes Laboratory of Chemistry, Urbana, Illinois

R. L. Starkey, Chairman, Agricultural Experiment Station, New Brunswick, New Jersey

The application blanks will call for the following information:

1. Date:
2. Name:
3. Address:
4. Date of birth:
5. Colleges or universities attended. Provide dates of attendance and degrees received:
6. Professional experience:
7. Present position:
8. Period for which Fellowship is wished:
9. Where and with whom is the study to be made:
10. Is a letter from the person with whom you wish to study enclosed?
11. Objective:
12. Amount of money requested. Itemize expenses (transportation, maintenance, etc.):
13. Has a letter from your supervisor been sent to the Committee?

14. Have you secured permission to be absent from your parent institution for the period of the Fellowship?

Applications are to be submitted to a member of the Committee: Charles E. Evans, I. C. Gun-salus, R. L. Starkey.

LEDERLE MEDICAL FACULTY AWARDS 1956-1957

The purpose of the program of "Lederle Medical Faculty Awards" of the Lederle Laboratories Division of American Cyanamid Company is to assist able men and women who are working and contemplating further careers in the pre-clinical departments of medical schools. The program will provide financial aid for a limited period in the support of young individuals who have demonstrated capacities both as teachers and investigators in the fields of anatomy, biochemistry, microbiology, pathology, pharmacology and physiology, in order to help accelerate their development and to encourage them to remain in these disciplines. The plan is also intended to assist departments to offer opportunities for development of promising individuals.

The Awards are designed for persons who have progressed beyond the stage of development which is now encompassed by the post-doctorate fellowships or the so-called senior fellowships. Candidates for, and recipients of, Lederle Medical Faculty Awards must hold "faculty rank", such as Instructor or Assistant Professor (or their equivalent, as determined by the Committee) in their medical schools, and should be individuals who give promise of staying on to continue teaching and research within the disciplines indicated above. Individuals chosen for the Awards are to have full privileges and responsibilities as regular faculty members for teaching and research.

The Awards will be administered by an independent committee, composed of professors representing most of the pre-clinical sciences and drawn from medical schools throughout the United States. The Committee will have full and independent authority in the selection of the schools through which Awards are to be made and of recipients of the Awards. All Awards will be made directly to a designated medical school in the United States or Canada and will be specified for the use of the department for the support of the stated grantee and his total academic activities.

Awards will be made for a term not exceeding three years, provided that the conditions of the Award are fulfilled. The only restriction in the case of each recipient is that the total amount, which will be awarded at a rate to be determined by the Committee, shall not exceed \$10,000 in any one year to any one grantee.

In general, three types of awards will be considered with favor:

- (1) An Award which will bring into the department a new person, not previously supported either by the departmental budget or by research grants. Such an award will be expected in its fullest sense to strengthen both teaching and research activities of the department.
- (2) An Award which will continue the salary of an individual previously supported on research grants when those grants have terminated. Such an award will be expected to strengthen teaching and maintain research activities of the department.
- (3) An Award which will supplement the salary of an individual to enable the department to retain him to perform teaching and research functions vital to the department.

In general an Award will not be made to a candidate with a stable salary provided from a departmental budget if the major purpose of the Award is to free funds for new but unspecified member. Instead, a new staff member should himself be proposed for the Award. Also, granting research funds to a well established investigator will not be looked upon with favor.

There are no formal application blanks. Nominations for Lederle Medical Faculty Awards should be submitted to the Committee through the Office of the Dean of the medical school and should be endorsed by him. Only one candidate from each school will be considered in any given year. It is suggested that the most suitable candidate be selected by a committee of the faculty on the basis of personal qualifications.

The following information should be prepared by the head of the department and transmitted with nomination:

- (1) a curriculum vitae of the candidate;
- (2) a list of the candidate's publications, with complete citations and the names of co-authors, if any;
- (3) information supporting the candidate's eligibility;
- (4) a general outline of the total program of departmental activities proposed for the candidate;
- (5) reasons for requesting the support and a statement as to the ways in which the department will be benefited by an Award;
- (6) a budget, outlining the projected manner in which the funds requested will be expended and giving current and projected salary of the candidate and its sources.

A candidate will receive consideration only if it is clearly evident that the departmental funds will be augmented by the full amount of the Award.

An independent statement from the individual who is recommended should be sent directly to the Committee.

Nominations for Awards to be activated during the academic year 1956-57 should be submitted by October 31, 1955. Announcements of the Awards will be made on or about January 15, 1956.

While the Lederle Medical Faculty Awards Committee will be interested in the progress of each grantee, no formal reports will be required.

Address all communications to:

LEDERLE MEDICAL FACULTY AWARDS
OFFICE OF THE SECRETARY
PEARL RIVER, NEW YORK

TURKEY ORNITHOSIS OR PSITTACOSIS OF TURKEYS

The comparatively new disease "turkey ornithosis" has spread in the last seven years from Texas into ten or more states in this country. Dr. K. F. Meyer, consultant to a committee studying this disease, recommends the term "turkey ornithosis" over "psittacosis of turkeys" in the following letter:

17 January 1955

The George Williams Hooper Foundation
Dr. Cliff D. Carpenter
Institute of American Poultry Industries
221 North LaSalle Street
Chicago 1

Dear Doctor Carpenter:

I wish to submit for consideration my reasons for recommending that the term "turkey ornithosis" be chosen to describe the nature of the recently discovered infection in this species of bird:

The term "psittacosis", derived from the Greek word "parrot", was suggested in 1895 by Morange to designate a peculiar contagious disease of man, which had been noted among members of households exposed to sick birds, primarily parrots, from foreign countries. This term with its specific implications was universally accepted until it was recognized after 1929 that the causative agent of psittacosis is merely a single member of a much larger group of agents which share certain biological properties. Among the members of this group are the well-known pneumonitis viruses (meningo-pneumonitis, mouse pneumonitis, feline pneumonitis, psittacosis, Louisiana and San Francisco viruses). The ability of these to produce pneumonia was considered all-important. But knowledge advanced and it was learned that the group comprises also agents that infect mammals, producing generalized infection without pneumonic involvement. It is now customary to place all these diverse large and readily stained agents into the pneumonitis-psittacosis-lymphogranuloma venereum group. Newer studies on the antigenic structure have disclosed that the agents are species-specific in the toxin or viral neutralization tests

(Meyer, The Dynamics of Virus and Rickettsial Infections, 1954, p. 301). Thus today it is a generally accepted policy to report human infections associated with pneumonia according to their etiology, provided the infective agents have been isolated. The term "psittacosis" is reserved for infections specifically attributed to the agent transmitted from psittacine birds to man.

Since 1938 the epidemiologic relationship between human cases of "psittacosis" has assumed other aspects. Fulmars, pigeons, chickens, finches, ducks, pheasants and now turkeys have been recognized as potential sources of human pneumonia. The term "psittacosis" does not accurately describe infections derived from these birds because they are not members of the psittacine family. The more embracing term "ornithosis" (disease of birds) was proposed (Meyer, 1941). This term has found acceptance in the English, French and German literature by authoritative investigators (Mackie, Hunter and Worth, 1954; Bedson, 1950; Lépine, 1951; Mohr, 1952). They have all recommended that the infection of any bird exclusive of psittacine species, caused by members of the pneumonitis-psittacosis-lymphogranuloma group, be designated as "ornithosis". There is available convincing evidence that the viral agents causing the generalized infections with localization of the lesions in the parenchymatous organs and serious membranes are distinct serotypes characteristic for the different species of birds. The agent responsible for turkey ornithosis is quite distinct and is serologically separate from the agents causing infections in pigeons, parakeets and parrots.

By adopting the term "turkey ornithosis", both in scientific and in lay publications, the differences in the epidemiologic pattern of the human disease are emphasized.

In the mind of the public the term "psittacosis" is associated with the illness which caused the pandemic of 1929 and 1930, with a mortality rate of from 20 to 50 per cent. It is doubtless not in the interest of the poultry industry to perpetuate this terrifying impression to the consumer of edible bird meat, particularly in view of the increased publicity being given to the problem of human psittacosis associated with the wide distribution of infected parakeets. Well-defined descriptive terminology is essential in interhuman communication.

The term "psittacosis of turkeys" is ambiguous and epidemiologically misleading.

The plea is here made that all workers in this field of research, official personnel, members of departments of agriculture and persons associated with the poultry industry adopt the terms "turkey ornithosis", "pigeon ornithosis" or "chicken ornithosis" to describe the disease correctly.

Sincerely yours,
K. F. MEYER, M.D.

LABORATORY REFRESHER TRAINING COURSES

The Communicable Disease Center of the U. S. Public Health Center, P. O. Box 185, Chamblee, Ga., announces the scheduling of the Laboratory Refresher Training Courses listed below. Information regarding these courses may be obtained from the above address.

Dates	Course No.	Courses
Sept. 12-23	8.40	Laboratory Diagnosis of Bacterial Diseases Part 1. General Bacteriology
Sept. 12 to Oct. 7	8.00	Laboratory Diagnosis of Parasitic Diseases Part 1. Intestinal Parasites
Sept. 26 to Oct. 7	8.41	Laboratory Diagnosis of Bacterial Diseases Part 2. General Bacteriology
Oct. 10-28	8.01	Laboratory Diagnosis of Parasitic Diseases Part 2. Blood Parasites
Oct. 17-28	8.20	Laboratory Diagnosis of Viral and Rickettsial Diseases
Oct. 17-28	8.50	Laboratory Diagnosis of Bacterial Diseases; Enteric Bacteriology
Oct. 31 to Nov. 4	8.26	Laboratory Diagnosis of Rabies
Oct. 31 to Nov. 11	8.15	Laboratory Methods in Medical Mycology Part 1. Cutaneous Pathogenic Fungi
Nov. 14-25	8.16	Laboratory Methods in Medical Mycology Part 2. Subcutaneous and Systemic Fungi*
Nov. 14-25	8.55	Laboratory Diagnosis of Tuberculosis
Nov. 28 to Dec. 9	8.17	Laboratory Methods in the Study of Pulmonary Mycoses
Dec. 12-16	9.40	Laboratory Diagnostic Methods in Veterinary Mycology
Mar. 12-23	8.20	Laboratory Diagnosis of Viral and Rickettsial Diseases
Mar. 26-30	8.26	Laboratory Diagnosis of Rabies
	8.05	Laboratory Diagnosis of Malaria†
	8.21	Virus Isolation and Identification Techniques†
	8.42	Typing of <i>Corynebacterium diphtheriae</i> †
	8.51	Special Problems in Enteric Bacteriology†
	8.52	Phage Typing of <i>Salmonella typhosa</i> †

* Completion of Course 8.15 or equivalent education or experience is a prerequisite.

† Courses offered by special arrangement only.

HELP WANTED

Dr. Geoffrey Edsall, Army Medical Service Graduate School, Walter Reed Army Medical Center, Washington 12, D. C. is anxious to secure cultures of *Salmonella typhosa*, which are definitely known to have been isolated from persons acquiring laboratory infections with this organism, and which are not degraded. He would appreciate it if anyone having such a culture, which might fit these requirements, would get in touch with him.

Individuals possessing cultures of *Clostridium putrefaciens* are asked to send them to or correspond with L. S. McClung, Department of Bacteriology, Indiana University, Bloomington, Ind.

FROM THE ARCHIVES COMMITTEE

The Archives Committee has completed recently an inventory of the material collected in the Archives in previous years and a copy of the list will be available at the 1955 New York Meeting for those who wish to examine it. Study of the list reveals that only a small amount of material is now available and includes for the most part the following types of material: (1) pictures of the past presidents (up to approximately 1951), (2) certain early American books relating to bacteriology, (3) correspondence with honorary members, (4) some manuscripts or other material relating to regional histories as gathered for/from history round tables at annual meetings, (5) file of annual meeting programs, (6) banquet or group pictures taken at annual meetings: 1927 (Richmond), 1944 (New York), 1947 (Philadelphia), and 1948 (Minneapolis), (7) minutes and other material from council meetings or business meetings of the Society. Letters are being sent to individuals believed to be in position to supply additional materials to fill gaps relating to incomplete files or topics not represented. It is hoped that other members of the Society who own or know of material which might be of interest for the Archives will contact a member of the Archives Committee regarding the possibility of depositing such material in the Archives. The following type of materials are of interest: banquet or other group pictures of members at annual meetings, pictures, biographical or other material relating to early members of the Society, reprints of published accounts of history of bacteriology in America, obituaries of Society members, regional histories which may have been compiled but not published and early pictures of bacteriological laboratories.

Beginning with a display at the 1955 New York Meeting the Archives Committee will exhibit certain of the items from the Archives. Comments from members concerning these exhibits and the types of material to be included will guide the committee in the preparation of future exhibits.

Archives Committee: Drs. Stanhope Bayne-Jones,

3227 Reservoir Road, N.W., Washington 7, D. C.; Paul F. Clark, Memorial Institutes, University of Wisconsin, Madison 6, Wisconsin; H. J. Conn, Box 269, Geneva, New York; and L. S. McClung, Chairman of Committee, Department of Bacteriology, Indiana University, Bloomington, Indiana.

SCIENTIFIC EXHIBITS FOR THE 1956 MEETING IN HOUSTON

The scientific exhibits at the New York meeting were a most instructive and successful phase of the scientific program. Therefore the Local Committee for the 1956 meeting at Houston wishes to issue an invitation to members of the Society to plan now to submit scientific (non-commercial) exhibits for the 1956 meeting. The program Committee has agreed to include brief descriptions (up to 200 words) of the scientific exhibits in the Bacteriological Proceedings. These descriptions will be called for, and will be due in the hands of the Program Committee at the same time as the abstracts of scientific papers. However, it is possible that a scientific exhibit might be accepted, as long as space is available, even though a description of it is not received in time to be included in Bacteriological Proceedings.

JOURNALS FOR SALE

A bound set of the Journal of Bacteriology from Volume 1 to Volume 69 is offered for sale by Dr. William A. Feirer, 745 Fifth Avenue, New York 22, N. Y.

Dr. George R. Lacy, Chairman of the Department of Bacteriology and Immunology, School of Medicine, University of Pittsburgh, Pittsburgh 13, Pa., wishes to sell his buckram bound set, Volume 1 through Volume 69, of the Journal of Bacteriology.

NEWS OF OUR MEMBERS

Dr. M. Michael Sigel has been appointed Associate Professor of Bacteriology at the University of Miami School of Medicine. He was formerly Head of the Diagnostic Unit, Virus and Rickettsia Section, Communicable Disease Center, United States Public Health Service, Montgomery, Alabama.

The Maryland Branch announces with pride the winners of their annual awards that are given in honor of their most illustrious members, J. Howard Brown and Barnett Cohen (deceased).

These awards are given in recognition for contributions, devotion, diligence, and interest in the promotion of the Science of Microbiology and are presented annually to persons in the Maryland area that are judged to most adequately fulfill these requirements.

The J. Howard Brown Achievement Award for undergraduate work was received by Mr. James

H. Guilford of the Johns Hopkins University, School of Hygiene and Public Health for his work on Arthropod-Rickettsial relationships involved in certain phases of the natural history of the agent of Rocky Mountain Spotted Fever.

The Barnett Cohen Achievement Award for post-doctorate work was received by Dr. Paul H. Hardy of the Johns Hopkins University, School of Hygiene and Public Health for his contribution to the literature concerning diphtheria in pregnancy, influenza virus and Treponema agglutinations.

The material reward commemorating this occasion is an engraved and framed citation and one year membership to the Society of American Bacteriologists.

As of the 1955-56 year, the Douglass College (formerly New Jersey College for Women, Rutgers University) Department of Chemistry and Bacteriology will be divided into separate departments, the Department of Bacteriology to be headed by Dr. Hazel B. Gillespie. Dr. Gillespie has been associated with the college since 1940.

Dr. Mary I. Bunting became Dean of Douglass College on July 1, 1955. Dr. Bunting is the third dean in the history of 37 year old women's division of the State University.

Three members of the Society were honored by election to membership and one to foreign associate in the National Academy of Sciences at the annual meeting held in Washington, D. C. April 25, 1955. Our members so honored were Drs. Colin M. MacLeod, New York University College of Medicine; Esmond E. Snell, University of Texas; Perry W. Wilson, University of Wisconsin; Andre Lwoff, Institute Pasteur, Paris, France. The Society may take pride in the fact that it contributed 10% of the new members and one quarter of the foreign associates elected this year.

Michigan State College presented special Centennial Awards "for outstanding contributions to society, for achieving distinction in their endeavors and for setting the highest standards of accomplishment" to twelve leaders in the veterinary medicine and public health field on June 26, 1955. Among those receiving the Centennial Awards were Drs. Gail Dack, University of Chicago, L. C. Ferguson, Ohio State University, W. H. Hinshaw, Camp Detrick, and J. A. Reyniers, Notre Dame University.

NEW BOOKS RECEIVED AND REVIEWS

General Microbiology. William G. Walter and Richard H. McBee, New York: D. Van Nostrand Company, Inc.; 1955 pp. VII + 345 \$4.75.
The Tubercle Bacillus in the Pulmonary Lesions of Man: Histobacteriology and Its Bearing on the Therapy of Pulmonary Tuberculosis. George Canetti, New York: Springer Publishing Co.; 1955. X + 226 pp. \$8.50.

Experimental Cookery. Belle Lowe, New York: John Wiley and Sons, Inc.; Fourth Ed. 1955. 573 pp. \$7.50.

Microbiology. Florence C. Kelly and K. Eileen Hite. New York: Appleton Century Crofts, Inc., 2nd. Ed. 1955. pp. 610, 207 Illustrations \$7.50.

Mechanisms of Microbial Pathogenicity. J. W. Howie and A. J. OHea, Editors. New York: Cambridge University Press; 1955. pp. 333, \$5.00.

A report of papers given at the Fifth Symposium of the Society for General Microbiology at the Royal Institute, London, April, 1955 presents 333 papers of 16 essays on the mode of action of widely different pathogens in producing disease in plants and animals. To say that these discussions on comparative pathogenicity of infectious diseases are stimulating is an understatement. Some of the chapters are really exciting and will, without doubt, cause some investigators to redirect their efforts with new approaches to the general problem of how microorganisms produce disease.

The excellent discussion of the "Meaning of Pathogenicity" by A. A. Miles is followed by chapters on special phases of the problem dealing with toxins and their mode of action and how bacteria, protozoa and fungi produce disease in animals or plants. Although the authors made valiant efforts to focus on the pathogen rather than the host they were fortunately, not entirely successful. In fact one of the more exciting chapters dealt with toxins produced in the host but not in vitro thus spelling out the impossibility of discussing the microbe without the host even in the matter of toxin production.

The importance of teams from various disciplines as microbiology, pathology, immunology, physiology and biochemistry in serious studies of the pathogenicity of microorganisms or toxins becomes apparent as one reads the various chapters. Practically, this may often be impossible as some of the essayists must have discovered. Yet, no one working in this field will, after reading this book, be entirely satisfied with less.

It would be quite inaccurate to suggest to the prospective reader that all or any of the infectious or toxic conditions described had been satisfactorily explained by the essayist. In fact, acceptable definitive information is conspicuous for its absence in some of the chapters but problems are defined and between the two covers of the book a large amount of information is presented dealing with one or another pathogenic microorganism. Thus the reader is left with an interest to do a bit himself to help in supplying the many missing pieces necessary for a satisfactory picture of the comparative pathogenicity of microorganisms or toxins.

W. J. NUNGESTER

Clinical Bacteriology. E. Joan Stokes. (Foreword by A. A. Miles). Baltimore: The Williams and Wilkins Company (Edward Arnold Ltd.); 1955. viii + 288 pp., 25 figures, 37 tables, \$5.00.

This book represents a description of the routine bacteriologic and serologic diagnosis of infections, based upon the author's wide experience in a large metropolitan hospital. The methods described are, in general, well known and are used with various modifications in many hospital laboratories. The procedures outlined in the several chapters of this volume represent those that have been selected, adapted, tested by extensive use, and found to be of value in the author's laboratory for the investigation of infections commonly encountered in a general hospital. Many of the methods were evolved as a result of the author's experiences when working with the Emergency Pathological Services in London during the war years, 1940-1944; others were added in consequence of the newer information that has resulted from advances in the field of microbiology during subsequent years. No one manual can be expected completely to meet the approval of every bacteriologist, and individuals will sometimes prefer to use modifications of the methods described here or, in some instances, quite different procedures. However, one is bound to derive information and helpful hints from a study of Dr. Stokes' book.

A little over one-half of the book is devoted to five chapters on: general procedures; culture of "specimens normally sterile" (blood, body fluids, tissues, etc.); culture of "specimens from sites with a normal flora" (nasopharynx, sputum, feces, vagina, skin, etc.); the identification of bacteria; and the investigation of infections due to the tubercle bacillus, Actinomyces and fungi. The descriptions are generally clear and adequate, and are accompanied by sufficient discussion to provide a background and rationale for the procedures, and to point out possible pitfalls. This approach supplies information as to the microorganisms normally to be expected in various sites, the pathogens usually encountered at those sites, and the methods to be followed in their isolation and identification. However, one is often required to consult descriptions scattered over several chapters in order to obtain a full picture of the procedures needed to complete a given investigation; a notable example is found in the examination of fecal specimens and the differentiation of the Gram-negative enteric bacilli. This could lead to confusion, particularly for the laboratory technician who, it is assumed, would be likely to make considerable use of the manual.

Quite properly, an adequate discussion is given of various methods of determining the sensitivity of microorganisms to the antibiotics and sulfonamides, and to the assay of antibiotics in body fluids. A chapter on clinical immunology includes

techniques for the several diagnostic agglutination tests in general use, complement fixation, the Kahn test (no reference is made to other precipitation tests for syphilis), and miscellaneous other procedures.

A direct result of the war experiences of the Emergency Pathological Services is the introduction in this book of a chapter on hospital epidemiology. This comprises a good description of the causes and sources of hospital wound infections and cross-infections, and methods for their investigation and control. The reviewer is pleased to note such a chapter in a manual on clinical bacteriology, for the hospital bacteriologist plays an important role in the investigation of these infections.

The line drawings and diagrams have been well executed and are instructive. Four photographs, in black and white, are fairly well reproduced, although sharper detail in some could probably have been attained. The format and typography are excellent, and typographical errors are rare.

JOHN E. BLAIR

An Introduction to Cell and Tissue Culture. W. F. Scherer, Editor. Minneapolis, Minn. (Burgess) 1955. 123 pp. \$4.00.

The Tissue Culture Association sponsored summer courses of instruction in the technics and problems of cell cultivation at the Connaught Laboratories in Toronto in 1948 and from 1949 to 1953 at the Mary Imogene Bassett Hospital in Coopers-town, New York. Members of the staff have now published in book form a syllabus of lectures given in these courses together with the outlines of laboratory exercises and incidental information. Contributors to the volume are J. H. Hanks, D. W. Fawcett, K. R. Porter, W. F. Scherer, J. Leighton, Esther Carpenter and W. R. Earle.

Methods are presented for the preparation of equipment and reagents for use in tissue culture procedures as well as sources from which these materials may be procured. Technics for the cultivation of different types of cells are outlined in detail. Reference is made to procedures for the enumeration and staining of cells and to their maintenance, preservation and transportation. In the didactic portion of the volume, the authors describe the growth of cells and tissues and discuss the nutrition and metabolism of cultivated cells as well as the application of tissue culture technics to the study of viruses and cancer. References to the literature through 1954 are made.

In the rapidly developing but still infantile field of tissue culture, the present volume must be regarded as a valuable but transient contribution. Although it is not suitable for use as a laboratory outline for a course in tissue culture procedures in a college or university, it will serve as a useful reference work. It also will be a helpful aid to the

researcher. The volume is nicely printed and enclosed in a spiral binder.

Within a few years, when tissue cultures are used in a manner comparable to that of lifeless mediums for the diagnosis of disease and for other purposes, the authors can take pride in having made a substantial contribution to the early development of this field.

R. L. THOMPSON

Methods of Biochemical Analysis, volume 2. Edited by David Glick. Interscience Publishers, New York 1955, \$9.50.

Volume 2 of the series "Methods of Biochemical Analyses" contains thirteen articles. These give complete and detailed directions for a variety of analytical procedures: methods of analyses of steroids by infrared spectrometry; chemical determination of adrenaline and noradrenaline; analyses of tissue lipides; determination of glutathione and of serum glutoproteins; techniques for terminal and sequence studies in peptides and proteins and for the spectrophotometric assay of cytochrome c oxidase. Details are also given for the assay of lipoxidase activity; of proteolytic enzymes; of compounds with folic acid activity; and for the determination of vitamin E and coenzyme A.

In each case the article has been prepared by investigators thoroughly familiar with the techniques involved, and they may be regarded as authoritative. The detailed procedures for carrying out the various analyses are supplemented with discussions of related subjects, together with some consideration of the historical aspects of the technique when this is appropriate. Each article is preceded by a convenient outline of the material involved, and there is a complete author and subject index for the whole volume. Although the book is fairly expensive, it is of great convenience and value for those interested in the specific techniques described.

E. A. EVANS, JR.

Catalogue of the Publications on Anaerobic Bacteria in the Library of the Veterinary Institute, Bogor (Indonesia) Bogor, 1954.

In this volume approximately 4000 papers, monographs and text-books have been listed alphabetically under the name of the author or authors. Apparently there are no references later than 1938. A fair number of the papers are not included in the much more exhaustive and generally useful "Subject Bibliography" on the anaerobic bacteria compiled by McCoy and McClung, and to that extent the present publication is of some value. However, it must be emphasized that this "Catalogue" makes no claim to completeness in its chosen field—it is merely a list of the papers, reprints and reports collected by one man (Dr. F. C. Kraneveld)

whose interests lay primarily in veterinary bacteriology, and there are, accordingly, some surprising and important omissions. Care should be taken in using this catalogue, for a rapid survey revealed a number of errors in transcription.

JOHN D. MACLENNAN

General Microbiology. William G. Walter and Richard H. McBee. D. Van Nostrand and Co., New York City, 1955. 345 pages, price \$4.75.

This text is a revised and somewhat expanded version of "General Bacteriology" written by the late D. B. Swingle in 1940. The authors have covered the fundamentals of microbiology in a brief text presenting most of the applications of interest to the general student. The material is pitched at elementary level so that there should be no need for previous biological subjects or much chemistry. In spite of the limited size, the authors have not slighted such fundamentals as morphology, taxonomy and the effect of physical environment. The book is clearly written, accurate, up-to-date, and well illustrated with many photographs and line drawings. Particularly helpful are phonetic spellings of the scientific names and a 12 page glossary of terms in which the novice may look up anything from amphitrichic to zygospor. The scope of the material is well-balanced allowing the student brief glimpses into the fields of soil, food, water, and industrial microbiology in addition to some treatment of the more important aspects of medical microbiology.

In the opinion of this reviewer the book is strongest in dealing with the fundamentals of the science. As an example, the treatment of cytology and spore formation is superior to that found in most texts of this scope. On the other hand several aspects of the material in the applied fields are unnecessarily sketchy. For instance, a chapter is devoted to

naming the orders, families and many important bacterial genera, and yet few if any of these names that the student may have so laboriously learned are referred to in such sections as food spoilage or water bacteriology. The student reading the chapter entitled "Bacteria in Waters" will come away with the all too prevalent notion that about the only organisms found in "life's solvent" are *Escherichia coli* and its enteric associates. There is a drawing of *Pseudomonas aeruginosa* under the classification chapter and yet we could not find this important organism mentioned again. Another noticeable lack was the absence of any suitable treatment of pH. Effects of temperature, osmotic pressure, and some chemicals are discussed but no mention is made of the limiting action of acidity on growth or why buffers are generally needed in culture media.

In a lighter vein the reviewer was surprised to see Swingle's amusing statement retained that "The commonest of all living things, at least in and about human habitation, are the Penicillia.....". We would be willing to give odds that several bacterial genera, *Micrococcus* for one, would far outnumber the penicillia even in the fair city of Bozeman!

We believe this book should be most valuable for an elementary course where time is limited and yet where many of the fundamentals are stressed. It occupies the region between a purely descriptive treatment for non-science majors and a major beginning course for bacteriology majors. It should be suitable for students in general biology, botany, agriculture, or home economics who will take only one course in microbiology or to serve as an introduction to one or two further courses in the applied fields.

ROBERT W. STONE

NEWS AND MEETINGS OF LOCAL BRANCHES

Northern California-Hawaii Branch (H. J. Phaff, Secretary-Treasurer)

May 19, 1955. The Stanford meeting of the Branch was held in the Bacteriology Auditorium, Bacteriology Building, Stanford University. The program follows:

1. Announcement by the President.
2. Report on the Council Meeting held on May 8 in New York during the annual S.A.B. meeting. Mortimer P. Starr—Councilor of the Local Branch.
3. The Cultivation of Pleuropneumonia-like Organisms. H. E. Adler and Richard Yamamoto, School of Veterinary Science, University of California at Davis.
4. The Effect of Certain Antibiotics and Chem-

ical Agents upon Pleuropneumonia-like Organisms of Avian Origin, Richard Yamamoto and H. E. Adler, School of Veterinary Medicine, University of California at Davis.

5. On the Isolation and Certain Properties of the Yeast *Saccharomyopsis guttulata* (Robin) Schionning 1853. Moshe Shifrine and H. J. Phaff, Department of Food Technology, University of California at Davis.

6. Relationships between Various Viruses, Their Hosts, and Presumed Precursors, as Indicated by Their Amino Acid Composition. Dean Fraser, Virus Laboratory, University of California at Berkeley.

7. The Distribution of Hydrogenase in a Newly Isolated Hydrogenomonad. Carlton Bovell and

A. C. Marr, Department of Bacteriology, University of California at Davis.

8. Photosensitivity in a Photosynthetic Bacterium. W. R. Siström, Department of Bacteriology, University of California at Berkeley.

9. Induced Formation of Serine and Threonine Deaminases in *E. coli*. A. B. Pardee and Louise S. Prestidge, Virus Laboratory, University of California at Berkeley.

10. Correlations in the Immunology of Tuberculosis. A. J. Crowle, Department of Bacteriology and Experimental Pathology, Stanford University.

11. Excretion of Organic Compounds by *Chlamydomonas*. Mary Belle Allen, Department of Plant Nutrition, University of California at Berkeley.

12. Carriage of *Staphylococcus aureus* in the Infant Nose and Throat. Valerie Hurst, College of Dentistry, University of California Medical Center at San Francisco.

Southern California Branch (Eric L. Nelson, Secretary-Treasurer)

February 17, 1955. The meeting of the Branch was held at the Los Angeles City Health Department. Following a short business meeting, a discussion of the proposed polio vaccination program in the Los Angeles area was presented by Drs. Charles F. Pait and John R. Chapman of the Los Angeles City Health Department.

April 20, 1955. The Branch met at Los Angeles State College. The following scientific program was preceded by a short business meeting:

1. Delayed Culture of *Neisseria gonorrhoeae*: Comparison of Smear and Two Holding Media Technics. Elaine De Boynton, Los Angeles County Health Laboratories, Los Angeles.

2. Gluconate Oxidation by *Pseudomonas* Strains. R. E. Hoyt and M. J. Pickett, Cedars of Lebanon Hospital and Department of Bacteriology, University of California, Los Angeles.

3. Serum Glycoprotein Studies in Brucella-infected and in Brucella-Immunized Guinea Pigs. H. E. Weimer, Jean Redlich-Moshin and E. L. Nelson, Department of Infectious Diseases, University of California Medical Center, Los Angeles.

4. The Cell Wall Structure of *Saccharomyces* as Shown by Ultrathin Sectioning Methods. Robert Levin and J. W. Bartholomew, University of Southern California.

Colorado-New Mexico-Wyoming Branch (Elizabeth O'Toole, Secretary)

April 30, 1955. The Colorado-New Mexico-Wyoming Branch met in joint session with the Colorado-Wyoming Academy of Science at the Colorado College of Education, Greeley, Colorado. The meetings were arranged by the Chairman,

Charles R. Bitter. The following papers were presented at the scientific session of the meeting:

1. Passive Immunization of Mice against *Histoplasma capsulatum*. Robert L. Taylor, Fitzsimons Army Hospital, Denver.

2. The Chemotherapeutic Significance of Differences in Isoniazid Plasma Levels Determined Chemically and Biologically. W. C. Morse, P. Z. Morse, J. S. Chambers, C. T. Pinney and P. B. Storey, Fitzsimons Army Hospital, Denver.

3. The Relationship of the Pyrazinamide Susceptibility of Isoniazid Resistant Tubercle Bacilli. C. R. Perry and W. C. Morse, Fitzsimons Army Hospital, Denver.

4. An Outbreak of Infantile Diarrhea due to *E. coli* 0127:B8. C. D. Graber, Fitzsimons Army Hospital and Carl Bernet, Colorado State Department of Public Health, Denver.

5. Budding in *Coccidioides immitis*. Joseph R. Creitz, Fitzsimons Army Hospital, Denver.

6. Additional Evidence for Local Antibody Production. Virginia M. Harrison, Louis R. Sibal and Richard Thompson, University of Colorado School of Medicine, Denver.

7. Skin Test Antigens from Yeast Phase Cultures of *Blastomyces dermatitidis* and Histoplasma. James E. Dyson, Jr. and E. Edward Evans, Colorado A & M College, Fort Collins.

8. Mycologic Findings in a Fatal Case of Pulmonary Infection with *Allescheria boydii*. James L. Tong, Veterans Administration Hospital and Denver University, Denver.

South Florida Branch (Alexander Kimler, President)

February 11, 1955. At the meeting held in Beaumont Hall, University of Miami, Miss Lillian Fly, Department of Microbiology, University of Miami, demonstrated and spoke on "The Electron Microscope".

April 28, 1955. The Branch met in the auditorium of the University of Miami School of Medicine. The following papers were presented:

1. Evaluation of a Rapid Disc Plate for a Bacterial Sensitivity Procedure. Dwight Frazier, Director Miami Branch Laboratory, Florida State Board of Health.

2. Growth of Vaccinia Virus in X-irradiated Chick Embryo Tissue as Studied in Tissue Cultures. Nathan Schneider, Assistant Director, Bureau of Laboratories, Florida State Board of Health.

Illinois Branch (J. C. Rickher, Secretary)

April 30, 1955. The 1955 Pasteur Award meeting of the Branch was held at the Edgewater Beach Hotel, Chicago. Dr. Perry W. Wilson, University of Wisconsin was presented the 1955 Pasteur Award at the dinner following the scientific ses-

sion. The topic of Dr. Wilson's address was "Les Favoris du Hasard".

The morning session consisted of a symposium, R. E. Kallio, Convener, on Reactions of Nitrogen in Bacterial Synthesis at which the following topics were discussed:

1. The Nitrogen Atom and the Vital Economy of Cells. R. E. Kallio, Department of Bacteriology, University of Iowa, Iowa City, Iowa.

2. The Assimilation of Ammonia by Heterotrophic Bacteria. H. D. Slade, Rheumatic Fever Research Institute, Northwestern University, Chicago, Illinois.

3. Amino Group Transfer Reactions in Bacteria. C. B. Thorne, Camp Detrick, Frederick, Md.

4. Incorporation of Nitrogen into Heterocyclic Rings. F. Schlenk, Argonne Laboratories, Lemont, Illinois.

At the general scientific session, presided over by M. Purko, held in the afternoon the following papers were presented:

1. The Behavior of Influenza Viruses in HeLa Cells and in Cultures of Various Mammalian Tissues. I. J. Green, M. Lieberman and W. J. Mogabgab, Virology Division, Naval Medical Research Unit No. 4, Great Lakes, Ill.

2. Citrate and Isocitrate Formation and Cleavage in Microorganisms. J. R. Stamer, R. A. Smith and I. C. Gunsalus, Department of Bacteriology, University of Illinois, Urbana, Ill.

3. The Effect of Lipase on Infection by Tobacco Mosaic Virus. J. L. Dale and H. H. Thornberry, Department of Horticulture, University of Illinois, Urbana, Ill.

4. Gene-Controlled Sensitivity to Copper in *Saccharomyces*. A. Brenes-Pomales, G. Lindegren and C. C. Lindegren, Microbiology Department, Southern Illinois University, Carbondale, Ill.

5. Pathways of Carbohydrate Degradation by *Microbacterium lacticum*. M. I. Krichevsky and W. A. Wood, Laboratory of Bacteriology, Department of Dairy Science, University of Illinois, Urbana and P. J. VanDemark, Laboratory of Bacteriology, Cornell University, Ithaca, N. Y.

6. Cathode Ray Sterilization of Distillers Barley Malt. J. R. Stratton, C. J. Coulter and W. H. Day, Research Department, Hiram Walker and Sons, Inc., Peoria.

7. Some Observations on the Sporulation Requirements of *Bacillus coagulans* var. *thermoacidurans* in Complex Media. M. Amaha and Z. John Ordal, Department of Food Technology, University of Illinois, Urbana, Ill.

8. The Independence of the Protective and Histamine-Sensitizing Properties of *Hemophilus pertussis* Vaccine for Mice. C. W. Fishel, Department of Microbiology, University of Chicago, Chicago, Ill.

Intermountain Branch (Don H. Larsen, Secretary)

April 22 and 23, 1955. The sixteenth semiannual meeting of the Intermountain Branch of the Society of American Bacteriologists was held in Pocatello. Dr. William Hoyer from the Rocky Mountain Public Health Laboratory at Hamilton, Montana, addressed a banquet meeting at the Banock Hotel on the evening of April 22. He described the nature of the research work that is being conducted at the Rocky Mountain Laboratory.

The scientific session was held in the College of Pharmacy Building on the Idaho State College campus on April 23. The following papers were presented at the scientific session:

1. Problems in the Makeshift Manufacture of P.P.D. Tuberculin. W. W. Smith, Utah State Agricultural College.

2. A Problem in Cottage Cheese Manufacture due to Contamination from a Water Supply. P. S. Nicholes and William Hoskisson, University of Utah and Arden Dairy.

3. Influence of Various Agents on Intracellular Digestion by Mouse Phagocytes. Ko Ko Gui, Stanley Marcus, and David M. Donaldson, University of Utah.

4. The Influence of Spleen Transplants on Phagocytic Intracellular Digestion after X-Irradiation of the Mouse. John F. Macknight, Stanley Marcus, and David M. Donaldson, University of Utah.

5. Use of the Air Pouch Technique in Connective Tissue Studies. R. D. Higginbotham and T. F. Dougherty, University of Utah.

6. Distribution of Ethyl Acetate Producing Yeast, Don H. Larsen and Gordon Jensen, Brigham Young University.

7. Interrelationships among the Effects of Heparin, Protamine, Citrate, and total Body X-Irradiation of Plasma and Serum Bactericidal Action. David M. Donaldson, Eugene H. Perkins, and Stanley Marcus, University of Utah.

8. The Relationship of the Morphology of *Candida Albicans* and Pathogenesis of Experimental Infection in the Mouse. Douglas W. Hill and L. P. Gebhardt, University of Utah.

The remainder of the program consisted of a brief business meeting and a description by W. W. Smith of his impressions and experiences while visiting bacteriology laboratories in Rehovoth Tel Aviv, Upsala, Oslo, Copenhagen, Rotterdam, Weybridge, Pearl River, and Philadelphia.

Maryland Branch (C. Baxter McLaughlin, Secretary-Treasurer)

April 16, 1955. The annual afternoon-dinner meeting of the Branch was held at Camp Detrick, Frederick, Md. The scientific session in the afternoon consisted of the following papers:

1. Cross-Infections Among Experimentally Infected Small Animals. G. Briggs Phillips, Joseph Jemski, Morton Reitman and Robert L. Alg, Office of the Safety Director, Camp Detrick.

2. Observations on "Slow" Carbohydrate Fermentation of Pathogenic Strains of *E. coli*. Richard Greenberg, Robert B. Lindberg, and Donald Hunter, Department of Bacteriology, Army Medical Graduate School, Washington, D. C.

3. Some Observations on the Microbial Populations of Green Plants and of Forage after Ensilaging. L. A. Burkey, and J. T. Kroulik, Dairy Husbandry Research Branch, Agricultural Research Service, U. S. D. A., Beltsville, Md.

4. Nutritional Requirements of Freshly Isolated Avian *Lactobacillus bifidus*. Mary S. Shorb and Robert W. Bishop, Poultry Husbandry Department, University of Maryland, College Park, Md.

5. The Effect of Hydrocortisone on the Course of Penicillin-Treated Pneumococcal Pneumonia. H. N. Wagner, Jr., Leighton E. Cluff, Louis Lasagna, and Ivan L. Bennett, Jr., Johns Hopkins Hospital and Miriam B. Rosenthal, and George S. Mirick, Baltimore City Hospital, Baltimore.

A cocktail hour and dinner, both held in the Officers' Mess, preceded the evening session at which the annual Barnett Cohen and the J. Howard Brown Achievement Awards of the Maryland Branch were presented to Dr. Paul H. Hardy and Mr. James H. Builford, respectively. The evening paper, "Application of Television and Electronic Instrumentation to Biology and Medicine", was presented by Carl Berkley of the Allen B. DuMont Laboratories, Inc., Clifton, N. J.

Michigan Branch (Elizabeth J. Cope,
Secretary-Treasurer)

March 18-19, 1955. The annual bi-state meeting with the Ohio Branch was held at the Western Reserve University School of Medicine.

Friday, March 18. 12:30, Registration; 1:30 Scientific Program, Room 48. Convener: Wm. W. Ferguson, President of Michigan Branch (The presentation of each paper will be limited to ten minutes.)

1. Studies on the In Vitro Production of Diphtheria Antitoxin. Benjamin Wolf and Abram B. Stavitsky, Department of Microbiology, Western Reserve University, Cleveland.

2. Poliomyelitis Virus Assays in Tissue Culture. Wilton Rightsel, Gersis Schultz, Dorothy Muething, I. W. McLean, Jr., Parke Davis Co., Detroit.

3. Detection of Antigenically Modified Erythrocytes From Virus Infected Chick Embryos. Nancy J. Bigley, John H. Wallace, Matt C. Dodd, and Claude-Starr Wright, Departments of Bacteriology and Medicine, Ohio State University, Columbus.

4. Two New Antibiotics From a Streptomyces, Griseo-Viridan and Virido-Grisein. John Erhlich, Parke Davis Company, Detroit. (15 Minutes)

5. The Effect of Certain Anaphylactoid Agents on *Hemophilus pertussis*-Sensitized Mice. H. Woodward Ritter, Department of Microbiology, The Wm. S. Merrell Company, Cincinnati.

Ten Minute Intermission.

6. The Effect of *Hemophilus pertussis* and its Thermolabile Toxin on the Physiology of the Trachea of the Rat. Walter S. Callahan, Donald J. Merchant, Department of Bacteriology, University of Michigan, Ann Arbor.

7. Studies on the Hydrogen Metabolism of *Desulfovibrio desulfuricans*. Joseph Judis, Howard Gest, and Harry Peck, Dept. of Microbiology, Western Reserve University, Cleveland.

8. Abortion, Stillbirth, and Early Death in Rabbits Induced by Oral Exposure to *Listeria monocytogenes*. M. L. Gray, Chintamani Singh, Frank Thorp, Jr., Dept. of Animal Pathology, Michigan State College, East Lansing.

9. Shigella Isolation From Rectal Swabs With GN Broth (Hajna). Charles C. Croft and Mary J. Miller, Ohio Department of Health, Division of Laboratories, Columbus.

At 8:15 P.M., Room 48; Speaker: Dr. H. O. Halvorson, University of Illinois, Urbana, Illinois. Subject: Bacterial Endospores as a Biological Problem.

Saturday, March 19, 9:00 A.M. Scientific Program, Room 234. Convener: Dr. M. C. Dodd, President of Ohio Branch. (The presentation of each paper will be limited to ten minutes.)

1. Microorganisms in Dental Calculus Treated With Chelating Agents. Chester I. Randles, Dept. of Bacteriology, Ohio State University, Columbus.

2. Preservation and Recovery of *Trichomonas fetus* After Freezing to -79°C . D. H. McWade, Department of Animal Pathology, Michigan State College, East Lansing.

3. A Comparison of the Activities of Terramycin Resistant and Susceptible Strains of *Streptococcus lactis*. Robert Angelotti and Harry H. Weiser, Department of Bacteriology, Ohio State University, Columbus.

4. Studies on *Streptococcus micros*. Georgia Senos and L. H. Mattman, Bacteriology Laboratories, Liberal Arts College, Wayne University, Detroit.

5. Glucose Oxidation by Intact Spores and Spore-Free Extracts. Brooks D. Church, Harlyn O. Halvorson, Department of Bacteriology, University of Michigan, Ann Arbor.

Ten Minute Intermission.

6. Study of Micrococcal Infections in Newborn Infants and Nursing Mothers. John Donahue, Jack Baldwin, and Melvin Rhineis, Department of Bacteriology, Ohio State University, Columbus.

7. The Intracellular Concentration of Lysine in *Micrococcus lysodeikticus*. E. M. Britt, P. Ger-

hardt, Department of Bacteriology, University of Michigan, Ann Arbor.

8. Analysis of the Effects of Bacteriophage Infection on the Synthesis of Adaptive Enzymes. John Spizizen, Howard Gest, and Charles Yanofsky, Dept. of Microbiology, Western Reserve University, Cleveland.

Saturday, March 19, 9:00 A.M. Symposium, Rm. 48. Tissue Culture Symposium. Convener: Frederick C. Robbins, Western Reserve University, Cleveland.

1. Extended Observations of a Persisting Viral Infection in HeLa Cells. Wilbur W. Ackermann, Dept. of Epidemiology, School of Public Health, University of Michigan, Ann Arbor.

2. Problems in the Long Term Cultivation of Normal Cells. H. Earle Swim, Dept. of Microbiology, Western Reserve University, Cleveland.

3. Virus Studies With Long Term Cultures of Metastatic Cells Derived From Human Bone Marrow. Cyril S. Stulberg, Lawrence Berman, and Frank H. Ruddle, The Child Research Center of Michigan, and Dept. of Pathology, Wayne University College of Medicine, Detroit.

4. The Newer Respiratory Disease Viruses. Harold S. Ginsberg, Dept. of Preventive Medicine, Western Reserve University, Cleveland.

Eastern Missouri Branch (Lucille K. Schulze, Secretary-Treasurer)

February 15, 1955. The fifty-ninth meeting of the Branch was held at the Wohl Health Center, 1528 North Kingshighway Blvd. The following papers were presented:

1. Studies on the Biosynthesis of Tobacco Mosaic Virus. Barry Commoner, Henry Shaw School of Botany.

2. *In Vivo* Morphologic Variations of Some Pathogenic Yeastlike Organisms. Morris Moore, Bernard Free Skin and Cancer Hospital.

April 23, 1955. The sixtieth meeting of the Branch was held in the Memorial Students Union Building of the University of Missouri, Columbia, Mo. A joint meeting with the Society for Experimental Biology and Medicine was held in the afternoon. The programs follow:

1. Implications of Germ Free Research for Microbiology. T. D. Luckey, Department of Biochemistry, Medical School, University of Missouri.

2. Studies on Bacterial Growth-Regulating Factor(s) Found in Rumen Fluid. G. B. Garner, M. E. Muhrer, W. H. Pfander, Department of Agricultural Chemistry, University of Missouri.

1. Role of Thyroid Hormone in Domestic Animals. C. W. Turner, Department of Dairy Husbandry.

2. Determination of the Thyroxine Secretion Rate in Fowls. H. V. Biellier, Department of Poultry Husbandry.

3. Determination of the Thyroxine Secretion

Rate in Cattle. G. W. Pipes, Department of Dairy Husbandry.

4. Thyroid-Parathyroid Interrelations. H. T. Blumenthal, The Jewish Hospital of St. Louis.

5. Studies on the Antithyrototoxic Factor. B. L. O'Dell, Department of Agricultural Chemistry.

6. Thiourrea Derivatives and the Fetus. Ray Hepner, Department of Obstetrics and Gynecology. Discussion leader C. D. Davis, Department of Obstetrics and Gynecology.

New Jersey Branch (Theobald Smith Society; Eugene L. Dulaney, Secretary)

March 17, 1955. The Branch met at Agora, Jameison Campus, New Jersey College for Women, New Brunswick, N. J. The scientific session consisted of the following papers:

1. Genetic Recombination in Bacteria. Thomas C. Nelson, Institute of Microbiology, Rutgers University.

2. Biosynthesis of Flavonoids in *Chlamydomonas*. Franz Moewus, Department of Zoology, Columbia University, New York.

April 14, 1955. The Branch met at the Hoffman-La Roche, Inc. plant, Nutley, N. J. for the April meeting. The scientific program consisted of a paper "Heatless Sterilization" by David M. Ashkenaz, Wyeth Laboratories Division of American Home Products, Corp., Philadelphia.

June 2, 1955. An afternoon picnic-supper meeting was held at Princeton University. The following officers were elected at the business meeting to serve for 1955-1956: President, W. W. Umbreit, Merck Institute for Therapeutic Research, Rahway; Vice-president, Marjorie A. Darken, American Cyanamid Co., Princeton, N. J.; Secretary, Madelon R. Grimm, Ciba Pharmaceutical Products, Inc., Summit, N. J.; Treasurer, Isabel Dimick, New Jersey College for Women, New Brunswick, N. J. The scientific program follows:

1. Studies on Some Metabolic Differences Existing between Terramycin Sensitive and Resistant *E. coli*. K. S. Kraskin, Department of Bacteriology, Men's College, Rutgers University.

2. Some Aspects of the Steroid Metabolism of Microorganisms. R. W. Thoma, E. R. Squibb and Sons.

3. Production of *Micrococcus lysodeikticus* as Substrate for Lysozyme. G. Litwack and D. Premer, N. J. Agricultural Experiment Station.

4. Studies on the Cell Wall of *Streptomyces fradiae*. A. H. Romano and W. J. Nickerson, Institute of Microbiology, Rutgers University.

Central New York Branch (Erwin Neter, Secretary-Treasurer)

May 21, 1955. The sixty-eighth semi-annual meeting of the Branch was held in the Auditorium of the Medical School, Syracuse University. Dr. S.

S. Kalter presided at the scientific session. The program follows:

1. The Problems of Gram-negative Bacilli in a Diagnostic Laboratory. Lillian Burton, Rome.

2. A Bacterial Screening Method for Potential Antileukemic Agents. Robert Guthrie and Marilyn Hillman, Roswell Park Memorial Institute, Buffalo.

3. The classification of the True Bacteria as Developed for Use in the 7th Edition of Bergey's Manual of Determinative Bacteriology. Robert S. Breed and Erwin F. Lessel, Jr., Geneva.

4. A Comparison of Modified Lwenstein's Medium with Several Newly-described Media for the Isolation of Tubercle Bacilli in the Clinical Laboratory. William Doyle and Noel R. Rose, Niagara Sanatorium, Lockport, and University of Buffalo.

5. Cultural Characteristics and Animal Pathogenicity Studies on Atypical Acid-fast Organisms Recovered from Human Patients. Noel R. Rose and William Doyle, University of Buffalo and Niagara Sanatorium, Lockport.

6. Hypersensitivity of Human Tissues *in Vitro*. Eugene J. Gangarosa, University of Rochester.

7. Stimulation of Latent Psittacosis Virus in Chick Embryo Tissue Culture. Alfred D. Heggie, Jr., University of Rochester.

8. Isotope Studies on the Methane Fermentation. Martin J. Pine, Roswell Park Memorial Institute, Buffalo.

9. The Antibody (Hemagglutinin) Response of Patients with Infections of the Urinary Tract. Winifred A. Bingham, Mervin H. Needell, Erwin Neter, William J. Staubitz, Roswell Park Memorial Institute and University of Buffalo.

10. Demonstration of Bacterial Antibodies by Means of a Polyvalent Hemagglutination Test. Erwin Neter, Eugene Gorzynski, Otto Westphal, and Otto Lüderitz, Children's Hospital, Buffalo, and Wander Forschungsinstitut, Säckingen, Germany.

Symposium on Viruses. Joint Meeting with Western New York Branch Society for Experimental Biology and Medicine at 1:30 P. M.

1. Introduction: Tissue Culture Methods. S. S. Kalter, State University of New York at Syracuse.

2. Tissue Cultures and Animal Viruses. J. H. Gillespie, Cornell University, Ithaca.

3. Tissue Culture as Virological Technique. James E. Prier, State University of New York, Syracuse.

Eastern New York Branch (Sally M. Kelly, Secretary-Treasurer)

May 5, 1955. The Spring meeting of the Branch was held at the General Electric Research Laboratory, The Knolls, Schenectady, N. Y. The following papers were presented:

1. Immunochemical Studies on the Human Low-Density Lipoproteins. Dorothy Kauffman, Lawrence Levine and Ray K. Brown, Division of Laboratories and Research, Albany.

2. Quantitative Estimation of the Heat-Labile a₂ Glycoprotein by Immunochemical Methods. Alan Peterkofsky, Lawrence Levine and Ray K. Brown, Division of Laboratories and Research, Albany.

3. The Oxidation of Indoleacetic Acid by an Enzyme from the Fungus *Polyporus versicolor* and by Nitrite. Nicholas E. Tonhazy, Sterling-Winthrop Research Institute, Rensselaer.

4. Fluoride Inhibition of Glucose Metabolism in Resting Cells of *Bacillus megaterium*. R. W. Graham, D. W. John, and H. L. Ehrlich, Department of Biology, Rensselaer Polytechnic Institute, Troy.

5. Studies on the Mechanism of the Streptomycin Reaction. Effect of Phosphate Concentration on the "Killing" Effect of Dihydrostreptomycin on Resting Cells of *Escherichia coli*. Charles Hurwitz and Carmen Rosano, Veterans Administration Hospital, Albany.

6. Report of a Mild Poliomyelitis-Like Outbreak in Plattsburg, New York. Johan Winsner, Division of Laboratories and Research, Albany.

Northeast Branch (Alice T. Marston, Secretary-Treasurer)

April 22, 1955. The Branch met at Boston College of Liberal Arts. Following a dinner at the Boston University Faculty Club, Dr. Erwin Neter, University of Buffalo School of Medicine and Children's Hospital spoke on "*Escherichia coli* and Epidemic Diarrhea of the New Born". The afternoon scientific session consisted of the following papers:

1. Influence of Vapor-Impermeable Footwear on Skin Bacteria. Ivan J. Stern, Quartermaster Research and Development Center, U. S. Army, Natick, Mass.

2. Some Applications and Techniques for the Millipore Filter. W. B. Krabek, Millipore Filter Corporation, Watertown, Mass.

3. Effect of Potassium on Growth of Influenza Virus in Tissue Culture. Alvin S. Levine, Department of Bacteriology and Immunology, Harvard Medical School, Boston.

4. A Method for Scientific Staining of Fungi in Sputum. Ernst H. Beutner and Howard E. Lind, Sias Research Laboratories, Brooks Hospital, Brookline, Mass.

5. Diagnostic Approach to the Incidence of Nocardia Infection. James Gray, Institute of Laboratories, Massachusetts Department of Public Health.

Eastern Pennsylvania Branch
(Theodore G. Anderson,
Secretary-Treasurer)

March 22, 1955. The 248th meeting of the Branch was held in the Auditorium of the Philadelphia County Medical Society Building. The scientific program consisted of:

1. Changes in Staphylococcal Resistance to Streptomycin in Mice. Eleanor Bliss, Department of Biology, Bryn Mawr College, Bryn Mawr, Pa.

2. Influence of Host Metabolism on the Susceptibility to Bacterial Infections in Mice. L. Joe Berry, Department of Biology, Bryn Mawr College, Bryn Mawr, Pa.

3. The Role of Histamine in Anaphylaxis of Pertussis-Treated Mice. J. Munoz, Lee F. Schuchardt, Department of Bacteriology, Research Laboratories, Sharp and Dohme Div. Merck and Co., West Point, Pa.

April 26, 1955. The 249th meeting of the Branch was held in the Auditorium of the Philadelphia County Medical Society Building. The following papers were presented:

1. Glucose Dissimilation by *Serratia marcescens*. Aaron E. Wasserman, W. J. Hopkins, and T. S. Seibles, Eastern Regional Research Laboratories, Wyndmoor, Pa.

2. Replicate Plating on Semi-Solid Medium for a Serological Study of Salmonella. Elizabeth Fowler, and James A. Harrison, Department of Biology, Temple University, Philadelphia.

3. Antibacterial Activity of Mixed and Parotid Human Saliva: Preliminary Report. J. B. Zeldow, University of Pennsylvania School of Dentistry, Philadelphia.

4. Effect of Penicillin on Oral Flora. Ned B. Williams and Associates, University of Pennsylvania School of Dentistry, Philadelphia.

May 24, 1955. The 250th meeting of the Branch, held in the Auditorium of the Philadelphia County Medical Society, consisted of a symposium on Influenza Virus:

1. Enzymatic Activity of the Virus. J. F. McCrea, Department of Microbiology, Yale University School of Medicine, New Haven, Conn.

2. The Susceptible Host. R. R. Wagner, Department of Internal Medicine, Yale University School of Medicine, New Haven, Conn.

3. The Formation of "Incomplete" Virus. Kurt Paucker and Werner Henle, The Children's Hospital of Philadelphia and the University of Pennsylvania.

Rio de Janeiro Branch (A. Cury,
Secretary-Treasurer)

May 20, 1955. The meeting was held at the School of Chemistry, University of Brazil. The following papers were presented:

1. Cacao Fermentation: IV. Microbiological Studies. Hebe Labarthe Martelli, School of Chemistry, University of Brazil.

2. Alcoholic Fermentation of Sugar Cane: I. Influence of Potassium; II. Quantitative Assays. Alice Soares de Oliveira, and Carlos Alberto C. Costa, School of Chemistry, University of Brazil.

3. Cell Localization of the Gram Reaction. R. Monis Aragao and Abelardo A. Freire, School of Chemistry, University of Brazil.

December 24, 1954. At the meeting, held at the Brazilian Press Association Building, the following officers were elected for 1955: President, Milton T. Mello, Institute Oswaldo Cruz; Vice-president, A. R. Furtado, Institute Oswaldo Cruz; Secretary-Treasurer, A. Cury, Institute Oswaldo Cruz; Councilor to S.A.B., A. E. de Area Leao, Institute Oswaldo Cruz; U. S. Representative to Rio Branch, Hilary Koprowski, Pearl River, N. Y. The scientific program consisted of the following papers:

1. Studies on the Vitality of BCG Vaccine: I. Determination of Dehydrogenase Activity and the Number of Bacilli. Paulo de Goes, C. Sole Vernin, and Laerte de Andrade, Laboratory of Microbiology, School of Pharmacy University of Brazil.

2. Studies on the Vitality of BCG Vaccine: II. Influence of Age, Temperature, and Daylight on Dehydrogenase Activity and the Number of Viable Particles, Laerte de Andrade, Paulo de Goes, and C. Sole Vernin, Laboratory of Microbiology, School of Pharmacy University of Brazil.

3. Effect of Vitamin B₁₂ on the Aerobic Glucose Oxidation by *Escherichia coli*. Gilberto G. Villela, Institute Oswaldo Cruz, Rio de Janeiro.

4. Q fever in Rio de Janeiro. J. Travassos, Arlette Ubatuba, Niber P. M. Silva, and Milton T. Mello, Institute Oswaldo Cruz, Rio de Janeiro.

South Central Branch (Ruth Mayne,
Secretary)

December 4, 1954. The Autumn meeting of the Branch was held at the Southern Regional Research Laboratory, New Orleans. The following officers were elected for 1955: Chairman, Miss Cornelia Eddy, Tulane University; Vice-chairman, Dr. William A. Pierce, Tulane University; Secretary-Treasurer, Miss Ruth Mayne, 3918 Canal St., New Orleans; Councilor to S.A.B. Dr. Arthur R. Colmer, Louisiana State University, Baton Rouge, La. The scientific session consisted of the following:

1. Preliminary Investigations of the Bio-oxidation of Methane. J. A. Tortorich, and R. J. Strawinski, Louisiana State University.

2. The Salmonella Problem. J. B. Hyndman, U. S. Food and Drug Administration, New Orleans District.

3. Sero-epidemiology of Epidemic Typhus in Peru. Martha E. Jordan and J. P. Fox, Tulane University.

4. Synthesis of Tyrosine and Phenylalanine by *Lactobacillus arabinosus*. R. L. Ory, and C. M. Lyman, Texas Agricultural Experiment Station, College Station, Texas.

5. Bacteria in the Reproductive Tract of Dairy Cows and Their Relationship to Infertility. J. A. Alford, Mississippi Experiment Station, State College, Miss.

**Texas Branch (W. L. Flannery,
Secretary-Treasurer)**

April 29-30, 1955. The spring meeting of the Texas Branch was held in the Officer's Club of the Brooke Army Medical Center, Fort Sam Houston, San Antonio, Texas. Dr. Curtis P. Artz, Director of the Surgical Research Unit, Brooke Army Medical Center, gave the I.M. Lewis lecture after the Saturday luncheon. He lectured on "The Problem of Infection In Burns".

Four scientific sessions and one round table discussion were held—running concurrently there were two sessions Friday afternoon and two Saturday morning. The round table discussion was held Saturday morning. Dr. Orville Wyss acted as moderator during a discussion of prerequisite training for persons majoring in bacteriology.

1. Radiation Resistance and Violacein Production: William R. Romig, T. P. O'Barr, Orville Wyss; University of Texas, Austin, Texas.

2. Studies on Encephalitis: Minnie Lee Sung, Thelma D. Sullivan, R. B. Eads, J. V. Irons; Bureau of Laboratories, State Health Department, Austin, Texas.

3. Demonstration of Viral Antigens Through the Use of Fluorescent Antibody Technique: Paul Donaldson, Walter Smith, Rae Allen, S. Edward Sulkin; Southwest Medical School, Dallas, Texas.

4. Calcium Content of Spores of *Bacillus cereus* var *mycoides* in Relation to Heat Resistance and Content of Dipicolinic Acid; J. J. Perry, J. W. Foster; University of Texas, Austin, Texas.

5. Evaluation of Antiseptic Toxicity in Skin Tissue Culture: Tom Wynne, C. M. Pomerat, F. B. Engley, Jr.; University of Texas Medical Branch, Galveston, Texas.

6. Paradoxical Viability of Anthrax Spores: R. P. Williams, R. Miller; Baylor University College of Medicine, Houston, Texas.

7. Phenyl Ethyl Alcohol as a Topical Anti-Microbial Agent: Joseph A. Bass, Truman G. Blocker, Jr., Charles R. Mowery, John W. Kolaja, Jr.; University of Texas Medical Branch, Galveston, Texas.

8. Behavior of Certain Salmonella in Experimental Infections of Chicks: Dorothy I. Clemmer, Joan F. Bridges, Morris F. Shaffer; Tulane Uni-

versity School of Medicine, New Orleans, Louisiana.

9. Further Evidence for Germination at 75° C. of Spores of Mesophilic Clostridium Strains: E. Staten Wynne, L. I. Galyen; University of Texas, M. D. Anderson Hospital and Tumor Institute, Houston, Texas.

10. Rabies in Insectivorous Bats of Texas: Kenneth F. Burns, Lt. Col., VC; Charles J. Farinacci, Col., MC; Fourth Army Area Medical Laboratory, Fort Sam Houston, Texas.

11. A Bacteriophage for *Azotobacter*: Douglas S. Kellogg, Jr., Orville Wyss; University of Texas, Austin, Texas.

12. Some Observations on Bacterial Contamination in a Burn Service: Jose A. Rivera, Anthony Contreras, Curtis P. Artz; Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas.

13. Some Microbial and Chemical Conditions Associated with Root-Rot Infested Blackland Soils: Ralph J. Hervey; Texas Agricultural Experiment Station, Temple, Texas.

14. Nutrient Requirements of *Vibrio cholerae*: R. A. Finkelstein, C. E. Lankford; University of Texas, Austin.

15. Methods for Investigation of Variations in Somatic Antigens of *Vibrio cholerae*: C. E. Eklund, S. Y. Alami, C. E. Lankford; University of Texas, Austin, Texas.

16. Changes in the C'4 Component of Complement in Guinea Pig Sera After Injection of Antigens: Rufus K. Guthrie; North Texas State College, Denton, Texas.

17. The Effect of Eating on the Microbiologically Determined Free Amino Acids in Human Plasma: Cora L. Gott, E. Staten Wynne; University of Texas, M. D. Anderson Hospital and Tumor Institute, Houston, Texas.

18. Involvement of Pantothenic Acid in the Inhibition of Growth of Some Bacteria by 6-mercaptopurine: Thomas Stim, B. C. Arnwine, J. W. Foster; University of Texas, Austin, Texas.

19. Studies on Recently Isolated Strains of *Proteus* from Burned Patients: Jose A. Rivera, Russell E. Brame, Ruth Latta; Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas.

20. Chemotherapeutic Prevention of Abortion in Experimental Bovine Brucellosis: V. T. Schurhardt, L. F. Rode; Brucellosis Research Laboratory of the Clayton Foundation and University of Texas, Austin, Texas.

21. Human Tissues Used for Virus Experiments: Helene Wallace Toolan; Sloan-Kettering Institute, New York, and Surgical Research Unit, Brooke Army Medical Center, Fort Sam Houston, Texas.

22. Bacteriological Aspects of Continuous Antibiotic Feeding: J. F. Elam, R. L. Jacobs, J. R.

Couch; Texas A & M College, College Station, Texas.

23. Influence of Sporulation Upon Streptomycin resistance of *Bacillus globigii*: Russell Weichlein, Roy B. Mefferd, Jr.; Southwest Foundation for Research and Education, San Antonio, Texas.

24. Factors Influencing Chromogenesis in *Micrococcus pyogenes*: James A. Johnson; University of Texas Medical Branch, Galveston, Texas.

25. Tissue Culture and Gel Diffusion Techniques in the Demonstration of Tumor Immunity in Rats: Paul Mazel, Roy B. Mefferd, Jr.; Southwest Foundation for Research and Education, San Antonio, Texas.

26. Influence of Hormones on Susceptibility of Mice of Different Ages to Cocksackie Virus Infection: Abbas Behbehani and S. Edward Sulkin; Southwestern Medical School, Dallas, Texas.

Virginia Branch (Miles G. Bowles, Secretary-Treasurer)

May 14, 1955. The spring meeting of the Branch was held at Madison College, Harrisonburg. The following slate of officers were elected to take office January 1, 1956. President, Mr. A. Rosenzweig, Veterans Administration Hospital, Richmond; Vice-President, Dr. W. H. Volk, School of Medicine, University of Virginia Charlottesville; Secretary-Treasurer, Mrs. Barbara H. Caminita, Arlington; Section Editor, Dr. P. Arne Hansen, University of Maryland, College Park; Councilor, Dr. A. E. Feller, School of Medicine, University of Virginia, Charlottesville; Alternate Councilor, Dr. H. J. Welshimer, Medical College of Virginia, Richmond.

In the afternoon, the following papers were presented at the scientific session:

1. Some Problems in the Simplification of *Endamoeba histolytica* Cultivation Medium. E. Clifford Nelson and Muriel M. Jones. Medical College of Virginia, Richmond.

2. Contamination in Bank Blood. A. Rosenzweig, McGuire Veterans Hospital, Richmond.

3. Serological Studies of *Lactobacilli*. P. Arne Hansen and R. H. Miller, University of Maryland, College Park.

4. An Unusual, Small, Gram Positive Rod Isolated From Spinal Fluid. Herbert J. Welshimer, Medical College of Virginia, Richmond.

5. A Comparison of the Original Loewenstein Media with Jensen's Modification of Loewenstein in the Culture of *Mycobacterium tuberculosis*. William A. Dorsey and Jo Soles, Department of Public Health, Richmond.

6. Human Tissues in Tissue Culture. Alto E. Feller, University School of Medicine, Charlottesville.

7. A Study of some Racial Differences with respect to Tuberculosis. Margaret Sue Anderson, Madison College, Harrisonburg.

8. The Tuberculostatic Activity of Aqueous Extracts prepared from Selected Mammalian Tissues. Quentin N. Myrvik, University School of Medicine, Charlottesville.

Washington Branch (Howard Reynolds, Secretary-Treasurer)

March 22, 1955. The 203rd meeting of the Branch was held in the Auditorium of the Army Medical Service Graduate School. The following papers were presented:

1. An Evaluation of Serological Technics in Studies of APC Viruses. W. P. Rowe, R. J. Huebner, and J. W. Hartley, National Microbiological Institute, NIH.

2. Streptococci from Urine: Serological Groups, Some Biochemical Reactions, and Types of Hemolysis on Five Species of Blood Agar. R. M. Cole and E. J. Rose, National Microbiological Institute, NIH.

3. An Association between *Cryptococcus neoformans* and Pigeons. C. W. Emmons, National Microbiological Institute, NIH.

April 26, 1955. The 204th meeting of the Branch, held in the Ballroom of the Officer's Club at the Walter Reed Medical Center, consisted of the following papers:

1. Studies on the Preservation of Bacteriophage: A preliminary Report. W. A. Clark, American Type Culture Collection, Washington, D. C.

2. The Use of Monkey Kidney Tissue in the Study of the APC Group of Viruses. J. W. Hartley, R. J. Huebner and W. P. Rowe, National Microbiological Institute, NIH.

3. The Development of the Microscope and Its Contribution to Biology and Medicine. M. C. Leikind, Armed Forces Institute of Pathology, WRAMC.

NEW MEMBERS

New Active Members

January 18, 1955 through June 16, 1955
Adams, Willard N., 83 Stewart Manor, Frederick, Md.
Adelson, Lionel M., Natl. Agricultural Coll.,

Research Lab., Farm School P. O., Bucks County, Pa.

Aitken, Richard, Jr., P. O. Box 3606, Arsenal, Ark.
Albanese, Marc S., 416 Madison Ave., New York 17, N. Y.

- Allen, Robert C., 33 Hadley Road, South Burlington, Vt.
- Amaha, Mikio, 219 Animal Sciences Lab., Dept. of Food Technology, Univ. of Illinois, Urbana, Illinois
- Andersen, Otto F., 2401 Park Ave., South Plainfield, N. J.
- Anderson, Elizabeth P., 3109 Varnum Street, Mt. Rainier, Md.
- Baker, Alvin C., Jr., American Cyanamid Co., Willow Island Plant, Willow Island, W. Va.
- Basch, Harold I., 203 Branford St., Hartford, Conn.
- Bates, Henry A., Jr., 3950 Humboldt Ave. N, Minneapolis 12, Minn.
- Becker, Earl F., Jr., Apt 3-D, Watkins Acres, Frederick, Md.
- Beers, Russell J., Dept. of Bacteriology, Univ. of Illinois, Urbana, Illinois
- Bennett, Ivan L., Jr., Johns Hopkins Hospital, Baltimore 5, Md.
- Berg, Paul, Dept. of Microbiology, Washington Univ., School of Medicine, St. Louis, Mo.
- Berg, Sheila R., 105 E. 24th St., New York 10, N. Y.
- Bergmann, Donald E., 1135 Fullerton Ave., Chicago 14, Illinois
- Blechman, Harry, NYU College of Dentistry, 209 East 23rd St., New York 10, N. Y.
- Blumenfeld, Stewart N., 543 Walnut, Lawrence, Kansas
- Boring, John R., Communicable Disease Center, Enteric Bacteriology Labs., Box 185, Chamblee, Georgia
- Bracken, Everett C., Box 1519, Vanderbilt Univ., Nashville, Tenn.
- Brandon, Gatlin R., 1400 S.W. 5th, P. O. Box 231, Portland 7, Oregon
- Brazis, Adolph R., Sanitary Engineering Center, USPHS, 4676 Columbia Parkway, Cincinnati 26, Ohio
- Breinig, Carolyn R., 22 N. Madison Street, Allentown, Pennsylvania
- Brent, Morgan M., Dept. of Bact. & Immun., Jefferson Medical Coll., 1075 Walnut St., Philadelphia 7, Pa.
- Brim, Alice, State of Georgia, Department of Public Health, Atlanta, Ga.
- Brittin, W. A., 58 Third Ave., Canajoharie, N. Y.
- Bryan, Charles A., 1629 Waverly Way, Apt. F, Baltimore 12, Md.
- Burch, Milton R., Dept. of Microbiology 70-1, Upjohn Co., Kalamazoo, Mich
- Burgoyne, Wm. E., 7 Round Hill Rd., Lake Success, Long Island, N. Y.
- Burrous, Stanley E., MB Division, Camp Detrick, Frederick, Md.
- Byrne, Robert J., LSS Grayson Research Lab., University of Maryland, College Park, Md.
- Cain, Robert M., Lt., MSC, USNR, Naval Medical School, NNMC, Bethesda 14, Md.
- Canby, Charles M., Dept. of Bacteriology, West Virginia University, School of Medicine, Morgantown, W. Va.
- Caprioglio, Lenio E., 1844 Fowler Ave., Bronx 62, New York
- Cavalli-Sforza, Luigi L., Instituto Sieroterapico Milanese, Via Darwin 20, Milano, Italy
- Cayle, Theodore, Dept. of Botany, Univ. of Illinois, Urbana, Ill.
- Chapman, George B., RCA Laboratories, Princeton, N. J.
- Char, Lorraine Y. S., 10611 Eastborne Ave., Los Angeles 24, Calif.
- Charles, Robert L., 704 Washington Ave., Tyrone, Penna.
- Charney, Michael, 173 Main St., Hackensack, N. J.
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SCIENTIFIC EXHIBITS FOR THE 1956 MEETING IN HOUSTON

The Local Committee for the 1956 meeting at Houston issues an invitation to members of the Society to plan now to submit scientific (non-commercial) exhibits for the 1956 meeting. The Program Committee has agreed to include brief descriptions (up to 200 words) of the scientific exhibits in the Bacteriological Proceedings. These descriptions will be called for, and will be due in the hands of the Program Committee at the same time as the abstracts of scientific papers.

SYMPOSIA FOR THE 1956 MEETING

Members desiring to suggest symposium topics for the Houston Meeting April 29-May 3, 1956, are requested to send their ideas to the chairman of the Program Committee, Dr. Orville Wyss, University of Texas, Austin 12, Texas. Because the 1956 meeting will be held almost two weeks earlier in the year than this year's, suggestions should be sent as soon as possible and not later than September 25, 1955. Time will not permit the consideration of suggested topics after this date.

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